OUTTURN OF BHADOI CROPS, 1890.

THE following is published for general information.

REVENUE DEPT., AGRICULTURE,

By order of the Lieut.-Govr. of Bengal,

P. NOLAN,

CALCUTTA:
The 4th November 1890.

Secretary to the Govt. of Bengal.

Note on the Outturn of the Bhadoi Crops, 1890.

The character of the rainfall during the past bhadoi season was described in the preliminary forecast of the winter rice crop. In the latter half of June, after the monsoon had set in, the fall was abnormally heavy in all parts of the Province. During July and August it was again very heavy and continuous in North Bengal and North Behar, moderately heavy in South Behar, and nearly normal in Chutia Nagpur, but on the whole deficient in Orissa, South-West and Eastern Bengal, and especially in a tract in the south of the Province, including Singbhoom, Balasore, Midnapore, Hooghly, and the 24-Pergunnahs.

The excessive rain which fell in the latter half of June directly after the

The excessive rain which fell in the latter half of June directly after the bhadoi crops had been sown, and also in July and August, seriously damaged these crops in South and North Behar, and to a less extent in the northern districts of Bengal, in Chittagong, Noakhally, Tipperah, Hooghly, Manbhoom, Pooree, and parts of Cuttack. The damage from this cause was greatest in South and North Behar. The loss from excessive rain was intensified by floods in some of the riparian tracts in which the winter rice crop also seriously suffered from this cause.

In Hooghly, Midnapore, Balasore, and parts of Cuttack the *bhadoi* crops are reported to have suffered to the extent of 4 annas, owing to deficiency of rain in July and August.

There are very few districts in Bengal in which the bhadoi crops have not suffered from one cause or another, and in most districts of Behar, in parts of Nuddea, Khoolna, Moorshedabad, Jessore, Furreedpore, Hazaribagh, and Cuttack, the reported loss varies from 7-to 14 annas. Taking the Province as a whole, the outturn is not expected to be more than 10 annas

The tracts in which both the bhadoi food crops and winter rice have been seriously damaged are shown in the following statement:—

| Names of dist subdivisi | | and | Outturn of winter rice in annas. | Outturn of bhadoi crops in annas. | Remarks as to last year's stocks (vide final report of the wheat crops for 1889-90). |
|-------------------------------|-------------|-------|--|--|--|
| Khoolna NUDDEA- | | | 11 | 7 | The produce of last year's food-grains was below the average. The district exports rice largely in ordinary years. |
| Sudder | *** | | 8 | 1 1 | |
| Kushtea | *** | | 10 | 8 | |
| Meherpore | | 447 | 7 | 5) | The produce of last year's food-grains was below the average. |
| Chuadanga | | | 1 | To the state of the state of | |
| Ranaghat JESSORE- | | | 10 | 6) | |
| Bongong Jhenidah | | *** | 6 8 | 6 } | Dito. ditto. |
| MOORSHEDAR | | *** | WER THE STATE OF T | | |
| Sudder | 544 Only 51 | 7.1.1 | 12 | 4) | |
| Lalbagh | 4/4 | V. | 10 | 8 | Ditto ditto, |
| PATNA— Sudder. Dinspore | | | 12 10 | 2 4 | The produce of last year's food-grains was on the whole average. The bhades crops occupy about it of the total cultivated area, and the winter rice less than half. The remainder is under rabs crops. The flooded areas will be available for rabs sowings. If these do well, as they are expected to do, there need be no apprehension |
| MOZUPPERPOI | RE- | 11/1 | THE STATE OF THE SECOND STATE OF | | of scarcity. |
| Sudder | | | 10 | 6 6 | The produce of last year's food-grains was below the average. The |
| Hajipore | | *** | 10 | 6 | remarks with regard to Patna apply to this district. |
| BARUN- | | *** | | Service of the Servic | apply to this district. |
| Sudder | | 1000 | 21 | CONTRACTOR OF THE STATE OF THE | The produce of last year's food grains see about the seems of these |
| Sewan | *** | +++ | 10 | 2 | The produce of last year's food-grains was about the average. There will be undoubtedly distress among the poorer classes, especially |
| Gopalgunge | *** | 444 | 11 | 4 3 | in the Coulder subdivisions among the poorer classes, especially |
| | *** | 244 | | 5 / | in the Sudder subdivision, in spite of a good rabi harvest that |
| MONGHYR- | | 100 | | | may follow, |
| Beguserai | *** | * | | 5 | Last year's produce was below the average—vide remarks against Patna, which apply also here. |

There is cause for watchfulness on the part of the authorities in the tracts above mentioned, especially in the Sudder and Chuadanga sub-divisions of Nuddea, and in the Sudder sub-division of the Sarun district; but the Collectors of Nuddea and Sarun are of opinion that there is as yet no apprehension of scarcity in those districts.

In the flooded tracts of Behar there may be distress in the event of failure of the next rabi harvest, of which, however, there is at present no 'likelihood. Abundant rain having fallen over the whole Province in September, and the first-half of October, the prospects of the winter rice crop are assured.

M. FINUCANE,

Director of the Department of Land Records and Agriculture, Bengal.

| Bengal | |
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| B | |
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| forecast of | |
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| | |

| 12 | Remarks by the Avricultural Department, Beugal. | | | | | | In August the rainfall was much short of the normal (4.25 against 13.5), but | erops, quie sunicetti for the bindon erops, Ditto ditto. | | In the latter half of June and through- out July the minfall was consider- | Sudder sub-division. In the Rampers Hat sub-division there was considerable excess in June, but in July the full was nearly normal. Some damage | as taken to make been caused by excess of rainfall in the Sudder sub-division. | In July and August taken together, the rainfall was deficient all over the district, particularly in the Sudder and | the mean of during een 13°37 o | nearly normal, and in June consi- derably in excess of the normal in all parts of the district; the deficiency of rainfall at the time of ploughing and | borne out by rainfall records. |
|----|--|--|-------------------------|-----------|--------------------|--|---|---|----------------|--|---|--|---|--|--|--------------------------------|
| u | Rermarks by the District Officer. | The crops were partially affected by excess of | before harvesting time. | | | ATA THE PARTY OF T | | has been favourable from the beginning. A bumper crop is expected if the weather con- tinues to be as favourable as it has been up to date, | | The rainfall was sufficient and timely. More than an average grop is expected. | | | Deficiency of rainfall at, barvesting time is the cause of short outturn. | Owing to the deficency of rainfall at the time of ploughing and sowing the bhadoi crops have suffered to some extent, and if there | be no random for excess of randal, the estimate will not be realized. The short rainfall in July and August greatly damaged the crops. | |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn. | Annas. | 15 | 22 | 91 | 14 | 16 | 8 | 18 | 8 | 20 | 200 | 888 | 2222 | 110 | About 19 |
| 6 | Taking 16 annas to re- present the averace outturn, how many annas represented last year's outturn, | Aunas. | 13 | | 10 | 10} | 1 | 16 | 122 | 91 { | 22 | More than | \{\{\}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | * | 1 18 | . : |
| æ | Names of principal bhadoi crops. | Early paddy-Aus, kelash and nehali | Aus paddy | William - | Kalai Ans paddy | | Early paddy— Aus, kelash, tetko and chali, | Aus and kelash paddy | | Bhadoi paddy— Aus, bora Tora Bhadoi raddy— | Aus, kalma Mahepal Bonous N. yali | | Ans paddy Till | Aus paddy Biri | ldy | Joanji and guji amia |
| 7 | Estimated area under this year's bhadoi crops, | 3001 | 30 { | 21 80 | 10) | 292 | 46 | 9 | 88 | }101 | Š | 225 | 899 | 88 | - 83 E | 719 |
| | Approximate area under last year's bhadol crops, | H | 8 | 23 | 80 | 243 | 3 | 8 | 88 | 173 | 3 | 287 | 390 | 8 | 8 8 | 613 |
| 10 | Approximate normal area under bhadol crops, | 139 | 30 | 8 | 100 | \$02 | 3 | 3 | 8 | 173 | 20 | 248 | 419 | 8 | 8 8 | 100 |
| | Total area estimated to be under oulti- vation in square miles. | 866 | 398 | \$98 | 350 | 3,006 | 670 | 350 | 1,020 | т. | 89 | 1,245 | 1,790'5 | 713 | 194 | 3 305.5 |
| 89 | Total area of sub-divi- sion in squire miles. | 1.248 | 11.0 | 352 | 432 | 2,697 | 1,931 | 700 | 8,621 | 1,168 | S | 1,756 | 3,252 | 158 | 089 | 5.110 |
| • | Spin-division. | Sudder | Ranegunge | Cutwa | L'Cuins | District Total | Sudder | Bishenpore | District Total | Sudder | Rampore Hat | District Total | Sudder | Contai | Tumlook | riot total |
| 1 | District. | | | BURDWAN | | | RANTOORA | | | | | | | MIDNAPORE | | |

| 81 | Remarks by the Agricultural Depart- ment, Bengal. | | | | | | |
|-----|--|---|---|---|---|---|--|
| п | Remarks by the District Officer. | The crop was affected by deficiency of rainfall, There was some loss in consequence of deficient rainfall after sowing, time the crop sustained a loss of samus. Deficient rainfall retarded the cultivation. The plants are not thriving well. | There does not appear any noticeable difference in the outturn, but the floods which have lately visited the northern part of the Basirbat subdivision have injured the crops to some extent, full particulars of which will be given in the final forestst, As the rails said in each more strongers was raid to the | cultivation of winter rice than bhadoi crops, and hence there has been a deficiency in the area of the cultivation of the latter. | Three-fourths of the crop have been destroyed by flowds. Half of the crop has been destroyed by floods. Ditto | Indigo suffered for want of rain in the begin- ning, and it was injured by too much rain during manufacture. The winter sowing was barely injured by excessive rain in November last. Ploughing and sowing were delayed to a certain extent in the beginning owing to drought, but the weather was very favour- able afterwards, and the ans paddy grew into a fine crop. Before the harvest time it was greatly damaged by the heavy floods. | Timely reinfall during the ploughing and sowing season gave satisfactory results. The outturn of the year would have been 18 annua but for floods which, coming before the erop was it for harvesting, submersed the mop and destroyed more than 10 annua of 11. |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn. | 5 1 | About 12 14 14 14 16 18 | p | -1 0000 | 4 00 NATE | 100 m |
| 6 | Taking 16 annas to re- present the average outturn, how many annas represented last year's outturn. | Annas. 6 12 16 18 18 | 2 242222 | = | === = = = = = = = = = = = = = = = = = | ∞ → ∞55 cc∞5 | 100 100 100 100 100 100 100 100 100 100 |
| ¥0. | Names of principal bhadoi crops, | Aus paddy Ditto Aus and kailes paddy Aus paddy | Aus paddy and bore paddy Ditto and bore paddy Ditto and bore paddy Ditto | | Aus boro, and kurmoni rice, | Aus paddy | Aus paddy Aus paddy |
| 7 | Estimated area under this year's bhadoi crops. | 87 87 87 87 18 17 17:00 | 88 88 5 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 | 154 | ## 181 | 250 250 200 200 200 200 | 1348 210 184 |
| 9 | Approximate area under last year's blader lest year's | 85°25 80°25 87 87 | 25.012 85 60 60 60 60 60 60 60 60 60 60 60 60 60 | 508 | 20 70 181 | 198 008 044 008 | 1,888 |
| 9 | lamton olemizorqqA lobard rader lobardo sqoro | 25-25 30-25 87 87 25 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 188 | 131 | 830 840 800 103 | 1,458 210 19 |
| • | Total area estimated to be under culti- vation in square miles, | 976-25 250 250 962 260 | 1,097.85 717 458 858 818 88 | 1,900 | 380 445 820 1,339 | 2 t | 1,958 475 889 |
| 8 | Total area of sub-divi- sion in square miles. | 848 848 888 171 | 1,637 1,070 138 592 580 580 48 | 2,603 | 1,573'40 | 101 7880 788 788 788 | 2,730 889 649 |
| | | 11 1 1 1 | 1 111111 | i a | 111 1 | 1 1 1 1 | 1 11 |
| | Sub-division. | Sudder Serampore Jehanabad Oolooberiah Howrah | District Total Sudder Diamond Harbour Brarset Barrakpare Barrakpare Dum-Dum | District Total | Sudder Satkhirs Bagirhat District Total | Sudder Kushten Meherpore Chuadangah Ranaghat | District Total Sudder Bongong |
| 1 | DISTRICT. | Ноосигя | 94-Pergunnar | | Киоська { | NUPPEA and | |

| • | | | | | P** | | | | | | | In the latter half of June and in July the rainfall appears to have been excessive and continuous. The blandoi groups probably afflered to a certain extent from this sense. | | | | | | | | | | |
|---|---|--|----------------|------------|--|---|----------------------------|----------------|--|---|----------------|--|---------------------------|---|--|--|-------------------|-------------------|-------------------|---------------------------------------|---|-------|
| The early twondatton has descrived the behalf of the sale of the ans paddy, which was about to be have select. In the fail decreased date is among were shown to be the satimated outling. But the early immediate has a fine diestroyed about 3 annus of the crep. Hence | the difference. The ratefall was normal at the time of ploughing and sowing and the crop in the field was very good. The sniden rise of water | submerged both ripe and unripe ans crops and thus damaged them considerably. The sowings were satisfactory as the rainfall was favourable, much damage was done by floods just before harvest. | | | Deficiency of rain at ploughing and sowing time caused late sowings. Floods caused most damage being early, and catching | the crop which was late, on account of the sowings being late, | | | Last year the estimated area under bhadoi crops was shown in the bhadoi fors- cast as 440, which I find on enquiry to be | too marker. There has been some loss by flood; but when the orop has been secured, it has been better than I anticipated, and the estimate of 18 annus, I think, is pretty correct. | | Owing to the timely rainfall both at the ploughing and sowing easens, the outturn this year is expected to be a good one, though early floods had greatly injured the | | | The state of the s | Some damage was done by the excessive min- fall of July, but on the whole a, full average | crop is expected. | | | · · · · · · · · · · · · · · · · · · · | Plenteous rain fell during the spring enabling the ryots to get on well with their ploughing. There has been a slight loss of jute rail a rather greater loss of ans through floods in ruthe spouth and east of the district. | |
| 13 | 6 | ∞ ₹∞∞ | 16 | 400 | 6 | | | 20 | 18 | | 18 | 10} 10 10 10 | 25.4 | 2322 | 13 | 16 | 14 | 15 | 16 | 15% | 18 | |
| 22 | · · | ∞ 21.42 | n | တတ | 10 | 6 | 0 4 | 6 | 8 9 | | 1 | 2 2 | r-80 | 36 8 8 8 8 8 | 13 | 16 | 14 | 15 | 14 | 15 | 10 | |
| 11 | 1 | 1111 | 1 | 1 | 111 | 11 | 1111 | | 100 | | | 1114 | 1111 | 111 | 1 1 | - | 1 1 | 11 | حدم ا ا | | 11 | |
| 11 | 1 | 1111 | 7 | 1 | 111 | 1.1 | 1111 | | 1 | | | 1111 | 1111 | 1111 | | 1 | 11 | 111 | 11 | | 11 | No. |
| 11 | -1 | 1111 | - | 1 | 111 | dy- | 1111 | | 1 | | | 1111 | 111 | 1121 | | 1 | | 2000 | 11 | 1 | 11 | |
| Aus paddy Jute | Aus paddy | Aus paddy Jute Till Indigo | | Ans paddy | Ans paddy Shama Kodo | Sandhon Guni | Chabira James Joseph | | Aus paddy | | | Aus paddy Jute Boro paddy Kaon | Kaon Jute Aus paddy | Jute Aus paddy Til (gingelly) Kaon | | Aus paddy Jute | Aus paddy Jute | Aus paddy Jute | Ans paddy Jute | | Aus | |
| 3 0 | 81 | 38 | 576 | 320 } | | - | 8 | 022 | 300 | | 200 | \$273 | 200 | 2500 | 723 | Low | | 300 { | \$82 | 1,050 | 247 } 565 } | 302 |
| 00 | 30 | 8 | 829 | 320 | 120 | | • | 222 | 260 | | 500 | 249 | 213 | 250 | 718 | 830 | 120 | 400 | 230 | 1,040 | 263 48 | 800 |
| 89 | 30 | 3 | 878 | 320 | 120 | | | 292 | 500 | | 200 | 973 | 153 | 820 | 676 | 290 | 115 | 400 | 440 | 1,245 | 247 68 | 300 |
| 4118 | 2003 | 88 | 1,742 | 576 833 | 406 | 9 | | 1,614 | 2,690 | | 2,600 | 888 | 6118 | 009 | 1,700 | 906 | 488 | 700 | 280 | 2,666 | 913 { | 913 |
| 87.9 | 487 | 1 | 2,925 | 767 878 | 808 | | | 8,159 | 4,118 | | 4,118 | 116 | 817 | 800 | 2,364 | 1,151 | 638 | 987 | 760 | 3,486 | 1,462 | 1,452 |
| 1 | 1 | | 1 | 111 | 1 | | 1 | 1 | 1 | Special S | | 1 | 1 | i | | 1 | 1 | 1 | 1 | | 4 | |
| Jhemidah | Narall | Magurah | District total | Sudder | Jungipore | Kandi | | District Total | Sudder Thakurgaon | | Whole district | Sudder | Nattore | Nowgong | District Total | Sudder | Nelphamari | Kurigram | Gaibands | District Total | Whole district | |
| JESSORE | | | | | MOORSHEDABAD | | | | DINAGEPORE | | | | Валенити | | | | RUNGBORE | | | | Воева | |

* This includes Sunderbuns, 2,772-91 square miles appertaining to this district.

† During the current year Chur Murchadear having an area of about 36 square miles was transferred from Bajshabye district to Kushtea sub-division: hence the increase.

| 19 | Remarks by the Agricultural Department, Bengal. | | | Maige, mertas and potatoes are known to be grown in the hills within the invisitetion of Kurseome. The area under these cross is evidently left out in settrasting the total area under | cultivation. | | | | | | | | | | |
|----|--|---|--|---|----------------|---|---|-------------|-----------------|---|---|--|------------------|---|---|
| II | Remarks by the District Officer. | Rainfall was favourable both at the plough- ing and sowing times, but high floods dam- speed the crops at havesting time, especially in the Saddes sub-design. | Owing to the very heavy and incessant mins after sowing it is feared that the yeld will not be a good one. | Excessive mainfall from the very beginning of the season was a great obstacle to the full growth and development of the plants; con- sequently the outturn is much less than the average. | | Owing to good fall of rain the outturn of bha- ded rice will be better than that of last year; | out excessive runnial has alrected the jute crop to some extent, | | | The figures in column 3 against Alipore and Palakotta will not tally with the figures of | hast year, vide corection slip to census pamphiet. The Sub-divisional Officer of Alipore says that the cannot reconcile the figures of column | for with the area under bladio crops shown in the last year's return. The figures of column 6 as now shown are said to be correct. | | The unisual rise of the rivers has affected every crop, especially the st garcane. | The prospects of any paddy this year were much better than last year, but the extra-ordinary light flood of the current wear. |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn. | Annas, 11 16 | 12 | 82 22 | About 12 | 14 | 118 | ža; | 10 | 13 | 10 | 1 21 1 | 12 | g 7 | තින ස |
| 6 | Taking 16 annas to re- present the average outturn, how many annas represented last year's outturn, | Annas. 7 13 | 22 | 2 2 | More than | g | 107.2 | 20 | 2121 | п | œ œ | 8 22 2 | . 11 | 2 : | 191 9 |
| | Names of principal bhadoi crops. | Aus Sub | 111 | Paddy Jute Paddy Warus | 1 | Early paddy- | Ťi | Betri paddy | 11 | Kaladamra Dhatadatora Kanaibasi | 1 1 | 11 11 | | Barly paddy, viz.— Gorfa, Mochakani Shati Kalamnick Porangii Shati Kalatiore Funkaich | |
| 4 | Estimated area under this year's bladoi crops, | }969 | | 2 | 140 | 138 | } 06 | 306 | 78 | os · | à | , s | 876-8 | i i | 8 |
| 9 | Approximate area under last year's binder last year's | 999 | 5 | 100 sdnw | 145 | 138 | 98 | 18 | 25 | 83 | 80 | ło. | 340.2 | ı | 3 |
| 10 | Approximate normal iobadd reduce arose. | 536 | 44 | sbout 8 acres | 138 | 188 | *2 | 18 | 28 | 8 | 30 | ż, | 353-5 | a a | \$ |
| • | Total area estimated to be under culti- vation in square ,eolim | 1,462 | 81 | Very little ; about 8 acres or '01 square mile onl 180 85 100 100 | 27.5 | 868 | 202 | 7.6 | 510 | 200 | 170 | 3 | 1,301 | 8 | 8 |
| 60 | Total area of sub-divi- solim square miles. | 1,847 | 五 | 185 | 1,164 | 123 | 402.73 | 88.98 | 584 | .019 | 1969 | 139 | 2,737.80 | 1,266 | 8 |
| 61 | Sub-division. | Pubna | Sudder, including Kalimpong. | Kurseong | District Total | Bykantpore | Boda | Patgram | Mynsguri | Alipore* | Fallakota | Bhalka | District Total | Sudder | Manickgunge |
| 1 | District, | PUBSA | DARJEBILING | ~ | | | | | Jule anachiding | | | | | | |

| Deficiency of rain at sowing time, excess of rain at harvesting time, and floods affected this crop. | | | | The crop was affected by flood at the harvest- ing time. | Įli. | The sudden rise of water and incursions of insects have to a certain extent injured the bhadol crops. | | Two-annas has been lost owing to excessive rain during the sowing time and also | owing to the early rise of the river with high floods. The yield of the aus crop was fair in spite of the early high rise of the rivers. | Four-annas lost on account of excessive rain at the sowing season, | The outturn of bhadoi crop is expected to be more than the avenage, but some damage having, been caused by heavy rain at the | navesting time, the outturn has been estimated to be 16 annas. Early, rise of water in May caused considerable danage to aus eron sown in low lands. | |
|---|--|----------------|---------------------------------|---|-----------------|---|----------------|---|---|--|--|--|----------------|
| 20024 | 2 | 11 | 69 | | 8 | £1199 | 15 | 2 | 22 | 8 | 16 | 13 | 13 |
| 11000 | 18 | | ∞ ∞ | | About 8 | 2548 | 138 | 92 | 10 | 2 | 13 | 18 | 121 |
| 111111 | | 1 1 | leghs | 1111111 | 11 | 1111 | | 1111 | 111 | 1111111 | | 1 | • |
| A COLUMN TO SERVICE ASSESSMENT OF THE PARTY | 1111411141 1331 <u>-</u> 1111 | | Str | 11111111 | | 1111 | | | | | 11111 | 1 | |
| Aus paddy Digher paddy Gruss. Sugaryane Early paddy, viz Soslari | Alechabya. Maislama Sarsuful Kaminissil Kataktara. Charmora. | | Aus, boro, a Ditto Barly paddy— | Aarthamar Gareswar Kedschak Kumrail Pakhiraj Binnaful Satia | Kaijuri Sada | Aus | | - Pa | Bhadari, &c. Aus paddy | Chitri Chitri Gayal Balaram Baran Daria Jabarshail | Early paddy Bogg Bonlia Bhadua Gayal, &c. | Aus paddy . | |
| 1000 | 2008 | 487 | 22 | 33 | 260 | 128 88 107 107 | 388 | 370 | 292 | 277 | 105 | 8 | 1,137 |
| 8 | 9 | 41.7 | 22 | 811 | 260 | 109 90 445 80‡ | 325 | 010 | 888 | 778 | 100 | 98 | 1,025 |
| 100 | \$ | 487 | 88 | 31 | 505 | 129 90 465 70‡ | 385 | 870 | 296 | ш. | 105 | 100 | 1,147 |
| 98 | 850 | 1,549 | 603 | 58 | 1,575 | 608 5000 400 400 | 2,098 | 1,070 | 780.75 | 088 | 169 | 330 | 3,824.75 |
| 19 | 3 | 2,797 | 979 | 8 | 2,967 | 1,111 692 1,231 613 | 3,649 | 1,840 | 1,041 | 1,244 | 1,389 | 245 | 6,267 |
| 1 | 1 | 1 1 | 11 | | 11 | 1111 | 1 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Munsbigunge | Narangunge | District total | Sudder Madaripore | Goalundo | District Total | Sudder Perozepore Patuakbali Bhols | District Total | Sudder | Tangail | Jamalpore | Netrokona | Keshoregunge | District Total |

the figures • The total area estimated to be under cultivation (272 square miles) excludes the area under tea.

† These are the figures now given by the Sub-divisional Officers. They seem to be incorrect, and special reports have been called for, but until the reports are received the figures cannot be altered with any certainty. Probably hast year are much nearer the mark.

| 13 | Remarks by the Agricultural Depart. | | | | | | | The canse for the decrease in the a rew own this year as compared with the normal area under bhadoi crops is not show on. To judge from the rainfall records there was no excess of rain in the Chittagong district in June; the recorded fall in this month was short of the | normal at every station, except Cox's Bazer, where the excess amounted to only 1 inch. At Chittacong, the deficiency was nearly 6 inches, and the number of rainy days fewer in the month. In July the fall was excessive, being 40 23 against 25 22 inches. |
|-----------|--|---|--|----------------|---|---|----------------|--|--|
| n e | Remarks by the District Officer, | Owing to excessive rain and inundation the | at the harvesting time. Frequent rains during the time of sowing and weeding reduced the yield. Unusual rise of water reduced the yield, | | Excessive rain in March while sowing was going on, and in July and August while the crops were being cut and harvested, affected the outturn. | The crop has been damaged by excess min, flood and insects, to the extent of 4 annas. | | sinfall in June and July selected the juriously. My estimate of last year in in my general administration report since ascertained was too low, the bladoi crops were grown and red under very favourable circums. The crop this year is expected on up to the average outturn of 11 | annas. |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn. | Аплав. | 12 | About 13 | 10 | 22 | п | 18 | |
| | Taking 16 annas to re- present the average outturn, how many annas represented last year's outturn, | Annas. | 25 25 | 16 | 3 | 22 | 13\$ | # # | a |
| 8 | Names of principal bhadoi crops, | Early paddy— Kaim Shail Kail do. Kabali do. | 111 1111 | | Shriy paddy— Sholdi — Green Green Sulfarnbrog Shatta Kalimooga Haral | Chegual | | Rarly paddy— Railam Chikrad Chikrad Khais Shailah Farly paddy Farly paddy Khaia | Personale. |
| 4 | Estimated area under this year's bladei evers. | 171.3 | 138-42 | 369-79 | *** | ż | 88 | 20.15 | 186716 |
| 9 | Approximate area year's under hast year's bladel erops. | 171.8 | 138-42 | 369-73 | | 28 | ogg. | 162.8 20.15 | 172.96 |
| 20 | Approximate normal area under bhadel cross. | | 138'42 | 869-73 | 8 | | 523 | 8.531 | 28.82 |
| • | Total avea estimated to be under cultiva- tion in square tion wiles. | 886.8 | \$12.65 | 1,895.18 | 2012 | 703 | 1,055 | 611-25 | 1,996.01 |
| 8 | -ivite-dus to area fatoT estim examps ni nois | 1,148 | 769 | 2,491 | 1,298 | 38 | 1,641 | 1,630 | 1987.9 |
| 1 | | | 11 | | 1-1 | 1 | | 1 1 | |
| 53 | Sub-dirision | Sudder | Brahmanberis | District Total | Sudder | Penny | District Total | Sudder Cox's Buzger | District Total |
| 1 | развист. | | Тгрезваш | | NOAERALLY | | | CHITTAGONG | |

(a)-These figures differ from those shown in last year's return. They have since been correctly ascertained and supplied by the Sub-divisional Officers.

| regard was the Commissioner finus are and are at a liquid and a sea and a se | | In the latter half of June and in July the rainfall was very heavy and | incessant in the Patna district except- ing Barh where the excess was not appreciable. | | | | | | | | | |
|--|----------------|--|---|---|--|----------------|---|--|---|--|------------------------------------|--|
| cases jum criting this year was do an the bill-people were organeed in cork. Consequently shoots all jums ever the consecutive house and the contract of the c | | The poor outturn is due to flood and exces- I sive rain throughout the season. | The excessive rainfall throughout the season and high floods at harvesting time caused great injury to the crops. | Floods destroyed the crops when the plants had grown and were thriving. | The crops were damaged by excess of rain during the sowing time. | | Excess of rain and floods after sowing season caused the decrease of outturn. Favourble rains at the ploughing and sowing time traised hopes, and the sugarcane floods were brought under bhado. The approximate floreness in area is estimated at one-lifth more than that of last year. | The excessive and almost continuous rainfall of the present season interfered with every operation connected with the cultivation of bhados. | The large decrease in the bhadoi crops is due to the extess of rain from the very beginning of the year and of flood water in most part of this subdivision. | Owing to the incessant rainfall the bhadoi crops have been much injured, The figures for the last year have been trisied, those more surnited being more resistance, those | · Francisco com Grand and Adam and | Excessive rain at the ploushing as well as at sowing time has kept some of the fields of bhadot cross from being brought under bhadot cultivation. |
| 0 8 0 8 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 010 | 93 | • | * | 01 | 80 | os . | | 01 00 04 | | 99 | я |
| 5e5a | 9 8 | 116 | 2 | 10 | 15 | 12 | 2 | 2 | 91 91 91 | 2 | 154 | |
| 1111 | | | <u> </u> | 1111 | 1111 | | 771 | 111111 | 111 | 11111 | 11 | 111111111 |
| 1111 | 11 | . 111 | 1111 | 1111 | | | 111 | 111111 | 111 | 11111 | | 111111111 |
| Jum paddy Cotton Ootton | Jum paddy | Maize Marus | Kedo Puddy Marua Mare | | | | Marwa Maize Bhiragi pulse | Marte Marua Kodo Urid pulse Barni pulse Sathi paddy | Marze Marua Sathi paddy | Marua Marua Tanguni Sathi paddy Sama | | Serha paddy Sath paddy Sath paddy Marua Maize Sama Kodo Cheena Urid Tril |
| 18.6 | 54.5 | 88 | - ii | 8 | 104 | 344 |) } ! | ä | }06 | 3.08 | 367.5 | 79.24 |
| 37.46 | 12.99 | 8 | 8 | 98(v) | (a)194 | 372 | 3 | \$ | 92 | 100 | 283 | 27.57 |
| 188 | 3 | Z | 98 | 70 | 194 | 356 | 3 | 25 | 20 | 106 | 336 | 8 |
| 82.52 | 67.13 | 19 | (a)118 | (a)465 | 878 | 1,655 | 1,484 | 747 | 203 | 202 | 3,449 | 877 |
| 3,68375 | 6,419 | 410 | 1163 | 989 | 793 | 2,679 | 1,889 | 1,246 | 607 | 1,020 | 4,712 | 20 |
| 1.1 | 1 | 1 | | 1 | 1 | 1 | 1, 1, | | i | 1 | 1 | |
| Sudder Sugges | District Total | Sudder | Dinapore | Barh | Behar | District Total | Sudder | Arungabad | Jehnnabad | Nawada | District Total | Arrah |
|) } | | · · | | i i | - | | | | | _5 | | |
| CHITIAGONG HILL Sudder | | | | | | | | - 118 | | | | Shallabad |

| 19 | Remarks by the Agricultural Department, Bengal. | | | | | | the latter half of June, in July and ugust, the rainfall was very exces- | Sive in an parts of the district. In Taipore only the fall in Angust was included the subdivision appears to be an extrestimate, and is inconsistent with the Collector's remarks. | | |
|--|--|---|--|---|----------------|-----------|---|--|----------------|--------------|
| II ON THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM | Remarks by the District Officer. | The excessive rainfall has made the prospect of the bhadoi crop hopeless. The fleids being under water, both seed and plants have rotted. | The crops were affected by excessive rainfall at the time of sowing as well as afterwards, | The deficiency in the outturn is due to excess of rain water at the time of sowing, and subsequently the crops suffered a good deal from floods in low lands and excessive and constant rain. | | | The bhadoi crops were sown under most In favoranble, circumstances, but excessive | outturn. | | |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn. | в в | 61 | | 6 | 61 | 18 | 190 | About 18 | |
| 6 | Taking 16 annas to re- present the avenue outturn, how many annas represented last year's outturn. | Annas. | 81 | 2 | 18 | S | 82 | 14 to 18 | About 17 | |
| œ | Names of principal bhadoi crops. | | 11 11111 | paddy | | paddy ::: | | Mario Mario Aguri paddy Kodo Saina Kaon | | Marise |
| 7 | Estimated area under this year's bladei crops. | |) 911 | 8 | 309.2 | 308 | 318 | 400 (| 1,020 | 265-57 |
| 9 | Approximate area under last year's last year's badon orops. | 2 | 159 | p | 856'75 | 300 | 909 | 320 | 1,050 | 2992 |
| ю | Approximate normal srea under bhadoi orops, | . 8 | 13 | \$ | 451 | 88 | 988 | 450 | 1,078 | 266-57 |
| | Total area estimated to be under culti- to be under culti- vation in square | 82 | š. | 8 | 8,167 | 68 | 119 | 1,025 | 2,665 | 88.1788 |
| | -ivib-dus to sora latoT -solum examps ai nois | 98 | 108,1 | 1,483 | 4,385 | 1,999 | 164 | 1,340 | 3,335 | 1,218 |
| | | 1 | | | | 1 | 1 | | | |
| • | Sub-division. | Burar | Bhabna | Sasseram | District Total | Budder | Tajpore | Madhubani | District Total | Mozufferpore |
| | District. | | SEAHABAD—concid. | | | | Бевратива | | | |

| Excessive rainfall and floods very seriously affected the outtern of the bindloi crops, especially in the Moxufferpore and Hajespore sub-divisions. The area cultivated was the same as in the rest year, but a large proportion of the crops has been lost in many places. | | | The weather was favourable at plouching and sowing time, but the crops were subsequently damaged by heavy and continuous rainfall and floods. | In consequence of excessive rainfull at sowing time the blasfoir orrow were much affected. The south-west part of the subdivision was entirely inundated by floods which swept ever all the cons. | The crops were very much injured by excessive ranfall at the end of July and beginning of August. | | The outturn of the bhadoi crops this year will be below what it was last year in consequence of the damage caused by the heavy rains and floods in the months of July and August. | Excessive rainfall in July and August damaged the maize and paddy on low lands. | |
|---|--|----------------|---|---|---|----------------|---|--|----------------|
| ė | 101 | Over 7 | 8 | | • | 1 | 51 4 ≈ ∞ ∞ ∞ ∞ | | 00 |
| 100000 | 2 | More than | 2 | 9. | 2 100 | | * | a | п |
| | 11111 | 10 1 | 114111111 | 1111111 | T11111111 | | 11::::: | dy.: 1 | 1 |
| 11:11111 | 11111 | | 111111111 | 1111111 | 111111111 | | gg : : : : : : : | a on | |
| Marun Kodo Kodo Urid Checus Janera (jowar) Maide | Gamri paddy Aus paddy Kodo Kaon | | Mates Marus Sams Santin paddy Fodo Tangun millet Cheens Lid pulse Urid pulse | Maire Sama Marua Sathi paddy Mesori Bajra | Maize Marue Sama Tanguni Cheena Urid Jowar Paddy | | Saro and bhandh paddy Marus | Maize Bharus Bhandh and saro paddy Kodo | |
| 308.4 | 98 | 873-97 | ā | 125 | 283 | 718 | 968 | \$000 | 1,162 |
| *** | 888 | 862.97 | ã. | 3 | 676 | 889 | 899 | 000 | 1,162 |
| 7.908 | 380 | 873-97 | a a | 9 | 900 | 786 | -899 | 900 | 1,162 |
| p.ssey | 19.011 | 2,257-24 | 3 | 889 | 158 | 2,123 | 1,022 | 1,200 | 8,488 |
| ш | 1,014 | 3,603 | 8 | 898 | , E | 2,622 | 1,618 | 2,013 | 8,631 |
| 1 | 1 | 1 | | 1 1 | | | 1 | 1 | 1 |
| Hajespore | Sitemarhi | District Total | Sudder | Seven | Gopalguage | District Total | Motihari | Bettlah | District Total |
| Mozgrynuponn | | | | | | | ORDERANDS | | |

• Th's area is twice cropped, being sown with bhadoi and rabbi in succession.

| . 81 | Remarks by the Agricultural Department, Bengal. | | larly at Janui, where 18's tinches were recorded against the normal fall of 6'3 inches. A like excess followed in July. | | | The rainfall was considerably in excess, not only at harvest time, but all over | the season since the middle of June. | In Madhepura the minfall was in excess in June (13'61 against 8:33); | against 12), but there was plenty of fine weather, the number of rainy | days being only is against to a; neuron the bhador crops did not suffer so much here as in other parts of the district from excessive rainfall. In August the fall was normal with pleny of fine weather. There was no rain in the first-half of September. It does not therefore appear how marus harvest can have been inter- fered with by excess of rhinkil st harvest time. The injury was pro- tably cansed by excess in June and July. | | The rainfall in the Sudder and Kis- | sengunge sub-divisions was very heavy in June (2011 and 25.4 against 10.8 and 15.3 in-hes respectively) and | moderately beavy in July; but no injury from this excess is noticed by |
|--|--|---|---|---|----------------|--|--|---|---|--|----------------|---|---|---|
| The state of the s | Remarks by the District Officer. | Danaged by floods and excessive rain before | About 11 annss of the bhadoi crops was da- maged by the excessive rain and the flood of the Ganges, Gunduck, and Ballan rivers. | Damaged by continuous rainfall, Janera, which is the principal among the bhadoi crops, was specially injured. | | The short outturn is due to excess of rain at harvest time and sudden floods. | The short outturn is due to deficient rainfall at the pioughing and sowing time and exces- | sive rainfall after sowing. Marna has been affected by excess of rainfall at harvest time. | Insufficient rainfall at ploughing time, un- equal distribution at the sowing time, and con- | tined rain in July, enset high vo maying plants. The rivers rose more than thrice and caused damage to martin and some bladdy made, is the water did not recede quickly. The transplantation of bladdy was retarded to want of rain in the north-cass of the sub-division in the middle of vuly, with the result that some lands usually planted with this crop had to be left fallow. The excessive rain towards the end of July produced rain weeds which it took some time to elear. This rain did more[mjury to marina | | Rainfall in the Sudder and Arrawah sub- | divisions was slightly unfavourable at time of ploughing, but favourable for sowing. It was somewhat excessive at the time of | harvest, Floods have done damage to the extent of six annual in the Kudwah, Dhum- |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn, | Annas. | 10 | en . | 9 | 00 | 80 | | 8 to 10 | | About 12 | 13 | 22 | 10 |
| 6 | Taking 16 annas to re- present the average outturn, how many annas represented last year's outturn. | Annas. | 6 | 4 | 10 | 00 | 129 | 10 | 16 8 | | About 13 A | 90 | 18 | |
| | Names of principal bhadol crops, | Maise Cheena Marus Marus | Kaon Maize Marua Kado Kaon Sama | Urid pulse Chota janera (jowar) Marva Obeens Kaon Kaon Kaon Kaon Kaon Kaon Kaon | | Sheers Kheri | day | Marus | Bhadoi paddy | | | Aus paddy | | |
| 7 | Estimated area under crops, crops, | 900 | 919 | 208 | 1,281 | 170 } | 335 { | 175 { | 839 | | 9399 | 650 | 150 | 4000 |
| 9 | Approximate area under last year's bindor crops. | 909 | 919 | 998 | 1,281 | 165 | 333 | 175 | 613 | | 984 | 648 | 130 | 808 |
| 9 | Approximate normal area under bindoi crops. | 200 | 515 | 98 | 1,281 | 175 | 3555 | 175 | 280 | | 288 | 700 | 180 | 1,050 |
| | Total area estimated to be under culti- vation in square miles. | 160'1 | ь | 71005 | 9,730 | 888 | 888 | 999 | 936 | | 3,083 | 1,500 | 000 | 8,000 |
| ** | -ivib-dus to some later. sion in square miles. | 1,559 | 2002 | 1,188 | 3,921 | 908 | 1,185 | 879 | 1,273 | | 4,958 | 2,572 | 1,540 | 4,956 |
| • | Sab-division, | Sudder | Ведтметы | Jamei | District Total | Sudder | Banka | Madhepura | Soopole | | District Total | Sudder | Kissenrunge | Ital |
| 1 | District. | | Моментв | . 1 | | | | DHAGULFORE | - | | | * | PURNEAS | |

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| The cause of the low outturn is not understood. In June and July the rainfall was nearly normal, and there was no unusual stretch of rainless weather. The injury from inundation to the winter rice crops appears from the winter rice forceast to have been small; it should be less in the case of upland bhadoi crops. | | | | | | From the rainfall records the fall in May and June appears to have been quite sufficient, and at many places, even in excess of the normal. In Jaj. pur the fall was indeed very deficient in August (5.40 against 1174 inches). In July it had been sightly delicient (1) 33 against 1376 inches). | | | | | | | | |
|--|-------|---|-------------------|---|----------------|--|----------------|--|----------------|---|----------------|---|----------------------------|----------------|
| Just after sowing the erops suffered to some extent from the rains being sartist, and when earing the unusual and untimely inundations damaged them to a great extent. | | The excessive rain has done considerable injury to maize. | | The moong has been affected by excess of rain and the aus rice destroyed by floods. The crops have been affected by excessive rain. | | The poor outturn of beali crop this year is time. In Jajour the rainfall was sufficient at the ploughing and sowing seasons, but their maturity. The prospects of mandia are not bad. | | Deficient cutturn is due to insufficient rain in Aurist, e.e., at the time when the crops were in ear. | | Owing to excessive rain at the time of sowing and harvoving this year's bhadoi crops could not be harrowed and weeded in proper time, and hence the outturn is short. | | The excessive and almost continuous rainfall in July and August has greguidistally affected the bindoi crons, escensially the motors. | | |
| • | 6 | • | 13 | 8 8I | 00 | 2220240 | About 18 | 118 | About 18 | 22°22 | п | • | \$ | About 7 |
| X | 3 | 91 : | 2 83 | 8 11 | 2 | 2222 | 15 A | 1 | 14 | 22 3 | 12 | 12 | 17 | 16 A |
| | | <u>~~</u> | | 1111 | | | 11 | 911 | 1 | 11111 | 11 | 111111 | | |
| 111111 | | | | 1111 | | addy, å | | 11 | | 11111 | | 111111 | | |
| Shado paddy Shana Maize Maize Maize Mulberry Mulberry | | Gordii Marus Marze | | Aus rice | 1 | Beali and mandia paddy, &c. Ditto Ditto Ditto Early paddy Maine Shama | | Beall rice | | Beali paddy Mandin paddy Ditto Kulthi pulse Kali mas | | Maize Marua Gondil Barui pulse Kodo | Saithi paddy Gora paddy | |
| ě ě | 388 | STATISTICS. | 1000 | 100 { | 780 | 178 10 98-75 50 50 | 336-75 | DESCRIPTION OF THE PARTY. | 1.5.6 | 3 3 | 208 | *************************************** | 388 | 1,164 |
| 8 | \$8 | 8 1 | 104 | 170 (a)50 | 823 | 180 10 97-25 80 | 887.25 | 140 | 175 | 2 1 | \$118 | | 586 | 1,164 |
| ā | 380 | 9 | 300 | 100 | 840 | 180 101 200 200 200 200 200 200 200 200 20 | 341 | 35°5 140 | 175.5 | 12 31 | 818 | 2 | 588 | 1,164 |
| 1,008 | 210 | 828 | 380 | 1138 | 2,730 | 713° 60°5 60°5 60°0 | 1,973'5 | 670 027 | 1,390 | 730 415 | 1,135 | 2,588 | 1,280 | 8,873 |
| 1,908 | 1,429 | 804 | 740 | 989 | 5,469 | 888 11.04 1.104 | 5,633 | 1,158 | 2,066 | 1,530 | 2,520 | 4,075 | 2,446 | 7,021 |
| | - 1 | 1 | 1 5 | 1) 1 | V | 1111 1 | 1 | 11 | 1 | 1 1 | 1 | J | i | 1 |
| Whole district | Dumks | Deoghur | Godds Rsjmehal | Pakour Jamtsra | District total | Sudder Banki Rendrapara Jajpur Angul | District total | Su | District Total | Sudder Khurda | District Total | Hazaribagh | Giridih | District Total |
| | | | ~- | | | | | ¥ | | 7 | | 1 | | |
| Макрая | | | NAES. | | | CUTTACE | | BALASORE | | Pouris | | Наганные | | |

| 13 | Remarks by the Agricultural Depart- ment, Bengal. | In the Sudder sub-division the excess was nominal. | | | | · · | | | | | | |
|-----|--|---|--|----------------|------------|--|----------------|----------|---|--|----------------|----------------------|
| Ħ | Remarks by the District Officer. | No damage was done to the crops by excessive rain. | Excess of rain just after sowing time destroy- ed the seedling to a certain extent. | | | Excess of rainfall between sowing and harvesting time has injured the crops. | | | There being sufficient rain, the yield has been a bumper one. Owing to the deficiency of | FRIDRII AS SOWING SIDE, DEADON WAS DOUGOWN OVER AS JAYGO AN AIVES AS USUS. | 6 | |
| 10 | Taking 16 annas to re- present the average outturn, how many annas will represent this year's outturn, | Annas. 14 | 2 | 14 | E-22228 | © <u>1111</u> | About 13 | á T | 500 | 8 | 30 | .10 |
| 6 | Taking 16 annas to re- present the average outtorn, how many annas represented last year's outturn, | Annies. | 91 | More than | 18 | a je | About 16 | 2 | 16 | 18 | 17 | 10 |
| | Names of principal bhadoi crops, | 11111 | | | Gorn paddy | 111111 | | | Aus peddy | Auts paddy Maize Til (gingelly) Macug puise | 1 | |
| 1 | Estimated area under this year's bhadol erops. | 81 | 9 | 634 | 150 | 9 | 190 |) 000 | · Se | 130 | 570 | 22,802.39 |
| 9 | area otherivering Approximate states area should state the states of the | \$15 | 8 | 100 | 95 | ä | 149 | 9 | 9 | 148 | 654 | 29,966*83 |
| 10 | Approximate normal area under bladoi sqoto | 919 | 607 | 618 | 92 | \$ | 190 | 091 | E . | 168 | 654 | 94,650.14 |
| | Total area estimated to be under culti- to be under culti- vation in square unlies. | 1,662 | 2,000 | 3,663 | 1,800 | 9/0 | 1,690 | £6 | 247 | 8 | 1,798 | 88,574-88 |
| ga. | Total area of anb-divi- solin stanps at nois | 7,784 | 4,360 | 12,044 | 3,544 | 808 | 4,147 | 91611 | 009 | The Co | 8,753 | 162,840°51 |
| 13 | | 7.0 | | 1 | 1 | | 1 | | 1 | 1 | | |
| ot | Sub-division. | Sadder | Palamow | District Total | Sudder | Gebindapur | District Total | Kolhan | Porahat | Dhalbhoom | District Total | Total for all Bengal |
| 1 | District. | | LOHARDUGGA | | | | | | SINGBHOOM | | | |

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 1st November 1890.

| No. | | District and return | date o | ŧ | at St | ainfall Sudder stionin iches. | Character of the weather and state and prospects of the crops. |
|------------------|-----|-----------------------------|---------|-------------------|----------|--|---|
| en G | AL. | . Western D | istrict | 8. | | | |
| 11 | 1) | Burdwan, | Nov. | | 90 | Nil 0.01 | Weather—cloudy and hot. Prospects of amun and sugarcane good. Price of |
| | | Ranigunge | | | | | Burdwan Srs 16½) |
| 1 | | | | | - | | Cutwa 16 per rupee. |
| | 2 | Bankoora | " | 1, ' | 90 | Nil | Weather—fine, but occasionally cloudy. Prospects of amun crop continue good Early rice has been an average crop. Amun expected to yield 16 annas in Sudder and 14 annas in the Bissenpore subdivision. Sugarcane thriving Common rice selling at 19 seers per rupee at Sudder and 20 seers at Bis |
| OIVE. | 3 | Birbhum | | 1, ' | 90 | 0.24 | weather—seasonable. Crops remarkably excellent, Price of rice 16 to 19 seers per rupee. |
| BURDWAN DIVE | 4 | Midnspur | | 1, ' | 90 | 0.38 | Weather—cloudy, wind variable. Prospects of rice crop good everywhere Some of the low-lying lands in Contai submerged. Jute in Tumlook is an average crop. Prices of common rice:— |
| B | | A. A. | | | | | Sudder 15) |
| 1 | | | | | | | Tumlook 16 per rupee. |
| 1 | 5 | Hooghly | | 1, | 90 | Nil | Weather—seasonable. Paddy plants healthy, and prospects good. Prices of common rice:— |
| | | | | | | | Sudder 14) |
| - | | Howrab | 1 | 1, | 90 | Nil | - Jehanabad 16) Weather—seasonable. Amun and other crops doing well. Price of commo |
| | | Central Di | | | | | rice 14 seers per rupee. |
| 1 | 6 | 24-Perghs. | Nov | . 1, | | Nil | Weather—seasonable. Prospects of amun paddy continue good, and the yiel is estimated at about 13 annas. Yield of jute estimated at 15 anna Lands being prepared for rubbi crops. Common rice sells at from 13 to 15 seers a rupee. |
| TAN. | 7 | Nuddea Meherpore | ,, | 1, | '90 | Nil 0.06 | Weather—seasonable. Prospects of crops fair. Sowing of winter crops goin on. Price of rice stationary. |
| PRESIDENCY DIVE. | 8 | Khoolns | | 1, | '90 | Nil | Weather—sensonable, Prospects of the amun crop satisfactory in Sudder an Bagirhat and in southern portion of Satkhira. In the north of Satkhira th amun was destroyed by the late flood. It was also slightly injured everywhen by the high wind of the 22nd October. |
| PR | 9 | Jessore Magura Narail | | , (1 ₅ | 90 | Nil 0.03 0.06 | Weather—seasonable. Rubbi sowings in progress. Price of rice stationary. |
| 1 | 10 | Moorshedabad | | 1, | '90 | 0.04 | Weather—seasonable. Amun paddy in ear. Rubbi crops being sown. Properts favourable. |
| | | | | | | | |
| 1 | 11 | Dinagepur | ,, | 1, | '90 | Nil | Weather—seasonable. Prospects continue to be very good, and, unless son unforescen calamity occurs, the winter rice should be unusually good. Price of rice remains stationary. |
| | 12 | Rajshahye | | 1, | '90 | Figures not given. | Fair weather. A shower last night (31st October). Steeping of jute almo finished. Tobacco transplantation going on. Prospects of paddy and wint crops good. Ganja plants being transplanted. |
| DIVE. | 13 | Nattore Rungpur | | 1, | '90 | 0.08 Nil | Weather—set fine, with cool nights and heavy morning dews. Prospects crops generally good. Great damage done by excessive rain to tobac seellings, and the potato crop will not be a good one owing to late planing from the same cause. |
| RAJSHAHYE DIVE. | 14 | Bogra Sherpur | | . 1, | '90 | 0·11 0·11 | Weather—fine till 31st October; morning of 1st November cloudy and shower afternoon fine again. All standing crops promise well, after allowing f partial injury caused by floods to the aman rice crop. Common rice selling at 17 seers a rupee. |
| | 15 | Pubna | | 1, | A00 | Nil | Weather—cool and bright. Prospects of crops continue good. Prices apperto be stationary. |
| | 16 | Darjeeling | | , 1, | *90 | Nil | Weather—fair. Potatoes and mustard are being sown in the Terai. Haiman paddy, marua, and pafar in the hills progressing favourably. Prospec |
| | 18 | 7 Julpigoree | | . 1. | '90 | Nil | good. Cold season has almost set in. Prospects of haimanti paddy good. Harvestie of jute going on. Prices stationary. |

| | No. | District and | ate a. | of | Rainfall at Sudder Station in inches. | |
|------------------|------|----------------------------|--------|----------|--|---|
| B | ENGA | I.—conclued. | | | | |
| | | astern Di | strict | | | |
| | (18 | Dica | Nov | . 1, '90 | 0.04 | Weather—seasonable. Heavy rain in Manickgunge. Asvini paddy being harvested. Amun paddy thriving. Cultivation going on for mustard and pulses. Fodder is available Common rice sold at from 12 to 15 seers per rupse. |
| DAC. DIVE. | 1.9 | Furreedpur | n | -1, '90 | Nil | Weather—seasonable. State and prospects of all standing crops good. Reaping of early amun has commenced. Winter crops are being sown. Price of rice stationary. |
| DAC | 20 | Backergunge | ,, | 1, '90 | Nil | Weather—seasonable. Prospects and condition of crops good. Common rice selling at about 13 seers per rupee. |
| | 21 | Mymensingb | ,, | 1, '90 | 0.40 | Weather—cool and generally fine; cloudy since yesterday (31st October), and light showers falling to-day (1st November). Amun paddy thriving. Kalai somewhat damaged by heavy rain last week. Common rice sells at 13 seers per rupee. |
| TAN. | 22 | Chittagong | ,, | 4, '90 | 1:32 | Weather—unsettled. Amun crop in ear. Prospects favourable. Prices steady. |
| CHITTAGONG DIVE | 23 | Noakholly | ,, | 1, '90 | Nil | Weather—not seasonable : cloudy and sultry. Amun maturing. Preparation of lands for rubbi crops going on. Price of rice stationary. |
| CHITTA | 24 | Tipperab | ,, | 1, '90 | 1.02 | Weather—clear. Cold weather setting in. Prospects of amun excellent. Lands being tilled for winter crops. Prices stationary. |
| | 25 | Chittagong Hill Tracts. | Oct. | 30, '90 | 0.22 | Weather—disturbed up to 27th; since then more settled. Harvesting of jumpaddy nearly complete. Cotton forming pods here and there. Ploughpaddy flowering. Common rice being sold at 11 seers 6½ chittacks per rupee. |
| BE | HAR. | Hill Tipperah | | | | Report not received. |
| | 26 | Patna | Nov | . 1, '90 | Nil | Weather—hot in the day and cool at night. Sowing of rubbi crops going on. Paddy promising well. Rahar and cotton look flourishing. Poppy fields are being prepared. Prices of food-grains almost stationary. |
| | 27 | Gya Shahabad | ,, | 1, '90 | Nil | Weather—clear days and cold nights. Prospects of crops good. Sowing of rubbi crops going on throughout the district. Prices of food-grains falling. A flight of locusts reported from the Aurangabad subdivision, but the extent of damage to the crops not reported. Weather—cooler. Prospects of rubbi and paddy crops good. Rubbi crops are still being sown. Early paddy being harvested. Opium prospects at |
| PATKA DIVE. | 29 | Durbhunga | ,, | 1, '90 | Nil | present excellent, the weather being favourable for sowings. Weather—bright and getting cool. Rice crop looking well and coming into ear. Rubbi sowings in progress, and those already sown have germinated |
| P. | 30 | Mozufferpur | ,, | 1, '90 | Nil | well. Tobacco doing well. Prices stationary. Weather—dry and fairly cool. Sowing of <i>rubbi</i> crops proceeding. Rice crop in excellent condition. Prices moderate. |
| | 31 | Sarun | " | 1, '90 | Nil | Weather—fine and cold. Rubbi and rice prospects both excellent. Prices slightly falling. |
| | 32 | Chumparun | , | 1, *90 | Nil | Weather—pleasantly cool: sky clear. Rubbi sowings have commenced. Paddy in ear and doing very well. Prices stationary. |
| | 33 | Monghyr | | 1, '90 | Nil | Weather—seasonable. Rubbi crops are being sown. Winter rice promising. |
| DIVE. | 34 | Bhagulpore | ,, | 1, '90 | Nil | Weather—clear. Mornings and evenings cool, nights dewy. Winter rice promising. Other crops doing well. Lands being prepared for spring crops. Indigo sowings in progress. |
| BRAGULFORE DIVE. | 35 | Purnesh Kishengunge | " | 1, '90 | Nil 0.06 | Weather—cool and fine with north-west wind. Prospects favourable, but the rain in October has retarded <i>rubbi</i> sowings, specially sowings of rape seed. |
| Вя | 36 | Maldah | | 1, '90 | Nil | Weather—seasonable. Condition and prospect of amun crop excellent. In some parts it is in ear. Kalai thriving well. Rubbi crops being sown. State of mulberry plants good. Common rice selling at from 13 to 18 seers a rupee. |
| | 37 | Sonthal Perghs. | | 8 67 | | Report not received. |

| N | Го. | District an | Control of the last of the las | Rainfal at Sudde Station i inches. | Character of the weather and state and prospects of the crops. |
|-----|------------|---------------------|--|---|---|
| 115 | SSA | | | | |
| 1 | a 8 | Custack | Nov. 1, | '90 0.10 | Weather—dry and cool. General prospects of paddy crop good, except in some parts of the Kujang estate where a failure of crops has occurred. Sowing of rubbi crops nearly finished. Mustard sown to the extent of 10 annas Outturn of beali rice in Sudder 12 annas, Jajpur & annas, and Kendrapare 12 annas. |
| 1 | 39 | Pooree | Oct. 30, | '90 0.56 | Weather—seasonable. Late sarad (winter rice) is in ear. Laghe arad (early winter rice) ripening. Miscellaneous crops doing well. Price of common rice stationary. |
| 10 | 40 TA | Balasore NAGPORE | Nov. 1, | '90 0 49 | Weather -fine up to 30th October; since then stormy. Prospects of winter rice fairly good except in thana Baliapal. |
| | South | h-West Frontie | r Agency. | | |
| 1 | 41 | Hazaribagb | Nov. 1, | '90 Nil | Weather—seasonable; cloudy since last two days. State of crops favourable throughout the district. |
| - | 42 | Lohardugga | "1, | '90 Nil | Weather—cloudy. Harvesting of gora rice finished. Prospect of winter rice continues favourable. Prices steady. |
| 1 | 48 | Singbhoom | "·1, | '90 Nil | Weather-very cloudy and threatening rain. Winter rice being reaped in places; 16 annas outturn expected in Ghatsila and Monarpur thansa and 10 to 12 annas outturn in the rest of the district. Rubbi sowings being continued. Prices stationary. |
| 1 | 44 | Manbhoom | 1, | '90 Nil | Weather—seasonable. All crops doing well. |

Published for general information.

CALCUTTA; REVENUE DEPT., The 4th November, 1890. P. NOLAN, Secy. to the Govi. of Bengal.

Meteorological Report of the Province of Benga

| 1 | | | 1.00 | | | | 1000 | | T. F. | STATI | ON OB | SERVATIO | NS. | | 44953 | | |
|---|--|------|-----------------------------|-----------------------------------|-------------------------------|----------------------|---|--------------------------|-------------------------|------------------------|------------------------|--------------------------|------------------------------|---|---|---|-----|
| 1 | | | | AIR | PRESSUI | RE. | W12 | m. | | | | TEMPERA | TURE. | | | | |
| | District. | | Representative station, | Mean barometric height, 8 A.M. | Mean reduced to sea-level. | Variation from mean. | reviiling direction. | Mean wind ve- locity. | Highest during week. | Date. | Lowest during week. | inte. | Mean maximum temperature. | Mean minimum temperature of week. | Mean daily tem- perature of week. | Variation from normal mean of week. | |
| 1 | entral de la | 5 | Pooree Gopalpore | 29°975 29°968 | 29:987 29:990 | + '055 | NNW | 192 219 | 87.7 89.2 | 28th Oct. 26th ,, | 78.6 72.3 | 28 & 31 Oct. 28th .,, | 87°1 87°1 | 75°2 78'8 | 81°2 80°5 | +0.7 | |
| | Pooree · | | False Point | 29.963 | 29.985 | + '027 | N & | 147 | 87.4 | 25th | 70.6 | 27th ., | 85.8 | 78'1 | 79.5 | +0% | są, |
| | Cuttack | | Cuttack | 291923 | 30.006 | +*050 | N N W Calm & | 30 | 90'4 | 25th ,, | 71'3 | 28th ,, | 88'6 | 78.8 | 81.2 | +1:2 | ж |
| п | Balasore | | Balasore | 29.962 | 30.023 | + 061 | NE NW | 1581 | 88'4 | 25 & 26 ,, | 68.9 | 26th | 85.1 | 71'4 | 7816 | +1.7 | 1 |
| | South-West Midnapor | re } | Sangor Island | 29'975 | 30 002 | +1048 | North- | 161 | 87.2 | 25th | 70'0 | 27th , | 85.1 | 71.7 | 78'5 | -03 | 1 |
| ъ | South 24-Pergunnaha | 100 | Midnapore | 29-849 | 30.003 | + '032 | Easterly N | 178 | 89'8 | 25th | 5.2 | 27th | 87'9 | 69.2 | 78'6 | +17 | d |
| | Howrah | -} | Calcutta | 29:987 | 80 009 | +1048 | Calm | 24 | 85.6 | 25th ,, | 66-7 | 27th | 83.7 | 68.8 | 76'2 | -1.7 | |
| | Hougary | | Burdwan | 29'918 | 30.021 | + .020 | Calm | 28 | 87.6 | 25th | 67'4 | 29th ,, | 86'4 | 69.8 | 78'1 | -0.8 | l |
| T | Burdwan | | Bankoora | 24*688 | 29.999 | + 030 | W | 42 | 88'1 | 26th | 64'2 | 27th | 86'5 | 67:4 | 77:0 | -1.5 | 1 |
| Е | Bankoora | 15 | Solet at 10 | 29*686 | 30:034 | + '060 | CONTRACTOR OF THE PARTY OF THE | | 87.0= | | 62'1 | mark | 85.1 | 65.9 | 75'6 | nes III | |
| 1 | Marine Walter St. 25 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1 |) | Raneegunge | 31 723 | 100 3 | 1.2 | NW | 35 | | 25th | | 0041 | | | | -5.3 | |
| - | Moorshedabad | *** | Berhampore | 29.937 | 30 005 | + 031 | South- Westerly | 37 | 84'7 | 26th ,, | 64.7 | 28th | 84'7 | 65'8 | 7616 | -17 | ı |
| 1 | Nuddea | | Krishnaghur | 29*957 | 30 007 | + '050 | WNW | 60 | 86'8 | 31st ., | 63.9 | 27th ,, | 85'7 | 12 (14) | 7518 | -5.4 | |
| 1 | O CHARLON O | ::} | Jessore | 29-967 | 30.002 | + '04" | calm | 35 | 86.5 | 25th ,. | 69.0 | 27th | 85.2 | 70.7 | 78:1 | +11 | ı |
| 1 | Chittagong | | Chittagons | 29*914 | 30.006 | +*048 | Variable | 40 | 86.5 | 25 & 29 ., | 69.7 | 28 & 29 ,. | 85'1 | 72'0 | 78 6 | +01 | į |
| l | Chittagong Hill Trac | ots | Demagiri | | | | | | bser | vations not re | ceived. | | | | 1.18 | THE STATE | l |
| 1 | Backergunge | *** | Barrisa1 | 29.973 | 20.082 | + .021 | alm | 42 | 85'8 | 25th Oct. | 69'4 | 27th | 84.6 | 70'8 | 77'8 | +0.3 | |
| 1 | Noakholly | | Noakholly | 29.975 | 30.019 | +1079 | N | 70 | 84.2 | 25-27 ,, | 67.4 | 29 & 39 | 83'7 | 70 7 | 77.2 | -0.1 | |
| l | Parree dpore | *** | Furreedport | 29.977 | 30'017 | + '060 | Cala | 35 | 84.5 | 26th ., | 67.4 | 28th | 83.1 | 69 1 | 76.1 | -1.6 | |
| 9 | Dacca | ** | Dacca | 29 955 | 29-999 | + '041 | SE | 64 | 85'1 | 26 & 29 ,, | 67.2 | 28th ,, | 84*0 | 68'9 | 77'1 | -2'4 | |
| Ł | Commillah | *** | Commiliah | 29,963 | 20 u04 | + '058 | NE | 23 | 85'9 | 26 & 27 | 65.8 | 28 & 29 | 84.3 | 69 2 | 76.6 | -2.5 | |
| I | Mymensingh | | Mymensing). | 29*945 | 29.985 | + 085 | Fast rly | 39 | 84.7 | Array Comments | 641 | ageh | 83'3 | 67:3 | 76.3 | -00 | |
| 1 | Bogra | - | Bogra | 20'956 | 30'004 | + 039 | Northerly | 35 20 | 85'2 | 26 & 31 | 64'8 | ouel. | 83.0 | 67.7 | 7518 | -2°1 | |
| ŀ | Pubna | | Serajgunge Rampore Beat- | | 30.005 | + '047 | Calm | 34 | 85 8 | 25th | 6617 | 27-29 | 83:9 | 65:8 | 76'4 | +0.1 | |
| 1 | Rajshahye | | leah. Maldah | 29.928 | 30.015 | +'115 | | 61 | 86.0 | 25 & 30 | 63:3 | 16th | 85-3 | 66.3 | 75'8 | -27 | |
| Ì | Dinagepore | *** | Dinagepore | 29 883 | 30.007 | +'022 | w | 30 | 87.1 | 25th | 64.2 | Blat . | 85 5 | 67:1 | 76'8 | 0 | |
| 1 | Rungpore | | Rungpore | z9.889 | 39.018 | + '021 | WsW | 56 | 87.8 | 2-th ,, | 64.5 | 31st ,, | 85'2 | 67.6 | 76 4 | +10 | |
| 1 | Julpigoree | } | Julpigorae | 20.702 | 19.000 | + '008 | | 194? | 86.9 | 25th ., | 65'1 | Suddle. | 84'8 | 66.7 | 75.7 | +01 | |
| 1 | Cooch Behar | , | | 23.058 | | | | Land of | | 100 | 42.2 | | | | E S | 4000 | |
| 1 | Darjeeling Hill Trac | | Darjeeling | 10-120 | | 003 | sw | 102 | 61.6 | 31st ., | 1 | 31st ,. | 50.2 | 47:0 | 53.1 | -0.2 | |
| | North Bhagulpore | } | Purneab | 29 875 | 30,005 | + '036 | 8W | 59 | 86*2 | 25th | 60.5 | 31st | 86.1 | 64.5 | 74'2 | -20 | |
| 1 | Mozufferpore | | Mozufferpore | 29'821 | 30.003 | -1 | Calm | 55 | 85'3 | 25th | 68.2 | 97 & j28 ,, | 84.2 | 68'8 | 76.7 | - | |
| ă | Durbhunga | | Durbhunga | 291837 | 80 0:1 | + '026 | Wsw | 40 | 86'4 | Residence | 62.0 | 31st ., | 85.1 | 65'5 | 75.8 | -1.8 | |
| ŝ | Chumparun . | 3 | Motihari | 29.778 | 30.013 | + +51 | ESE | 99 | 86'2 | | 28.9 | 31st ., | 85.2 | 62.5 | 73'7 | -0.4 | l |
| B | Sarun | | Chupra | 29.799 | 30.000 | +*625 | W | 47 | 86'3 | 25th | 62.9 | Stat | 84.0 | 66'2 | 75.5 | -014 | l |
| g | Shahabad | 5 | Dehree | 29.657 | 30'026 | +'029 | sw | 53 | 85:8 | 25tn | 59.5 | 30th ,, | 85.0 | 60*7 | 72'8 | -2.7 | |
| | Shahabad | 5 | Buxar Arrab | 29.200 | 30.051 30.051 | + '039 | W SW SW | 68 15 | 85'4 87'4 | 25 & 29 ., " #5th | 57'8 | Sist | 55'4 55'4 | 62:1 | 73.5 | -31 | |
| | Gyn | *** | Gys . | 19'640 | 30'034 | +*045 | 8 | 113 | 88'4 | 25th ., | 61.7 | 27 & 31 ,, | 86'0 | 6312 | 74-6 | -210 | |
| | Patns | 991 | Bankipore | 29 629 | 30 02 | +.020 | w | 55 | 89.0 | 30th | 62.3 | 31st | 85'9 | 64.2 | 75'1 | -17 | |
| | South Bhaguipore Monghyr | -} | Bhagulpore | 39 832 | zn.888 | + '039 | Calm | 8 | 87.2 | 25th ., | 68.0 | 27th ., | 84 6 | 64.8 | 747 | -0.9 | |
| | Sonthal Pergunnah | | Doomka | 29*498 | 30.012 | + '038 | talm | 36 | 86% | 25th ,, | 60-8 | oreh | 84'2 | 64.2 | 74.2 | -1.3 | |
| | Hazaridagh | | Manually | 17'977 | 30 021 | + '026 | WNW | 108 | 81.4 | 30th | 58'8 | 27th | 80'3 | 61.1 | 70.7 | -1.0 | |
| | Loharduggs |) | Ranchee | 27'848 | 30.013 | + '023 | Calm | 86 | 81'5 | 30th | 55'9 | dock. | 80.7 | 58.7 | 69.7 | -1'9 | |
| I | Manbhoom | 3 | | | | | | | | | | marin w | 1 | 00.7 | 1 | | |
| | Singbucom | | Chyebassa | #9*227 | 30.018 | +'048 | ENE | 26 | 87'4 | 2sth " | 60.2 | 87th | 864 | ● 65% | 75" | -0.9 | |
| | | 1 | Sibsagar | 29'702 | 50.047 | +.055 | Variable | 7 | 86.6 | 25 & 26 | 63.8 | lat | 8815 | 656 | 761 | +1.8 | |
| | Assam | | Dhubri | 29.885 | 30.007 | +.013 | Variable | 64 | 85"8 | 26 & 27 ,. | 66.9 | 28ta ,, | 83:2 | 69.8 | 76.5 | -0.4 | |
| 4 | | . (| Silchar | 48.803 | 30.015 | +'037 | Calm | 2 | 89.2 | 25th " | 66'8 | 31st | 8614 | 70'8 | 78:6 | +0.3 | |

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the less the humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the period in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 31st of October 1890.

| | the l | | | 100 | d i dyk | on the last | DISTE | CICT OF | SERVATIO | INS. | | | | |
|-----|--------------------------|--|-----------------------|-----------------|-----------------------|-----------------|----------------|-----------------------|------------------|------------|--------------------------|-------------------------|---------------------------|--|
| 1 | amount week. | ak n. at | Own | wинк. | | (Remark) | | RAI | NPALL. | | | | | |
| | cloud and | f wee | | | Sin | ee 1st of mo | nth. | Sin | ce 15th May | 1890. | number days. | number days. | Representative station. | DISTRICT. |
| | Average clo at 8 A.M. | Rainfall of week observing station. | Mean for district, | Normal mean. | Mean for district, | Normal mean. | Variation. | Mean for district. | Normal tuenn. | Variation. | Average nu of rainy d | Normal nu of rainy d | | |
| | 3.0 | 2°31 3°07 | | 1.48 | | 8.18 | THE STATE OF | | 52.33 | | | 1:3 | Pooree | |
| | 4.7 | 0.03 | 100 | | | | | | | | | | Palse Point | Pooree |
| | 4.9 | 0.18 | | 1.13 | | 5.63 | | | 49.80 | | A STORY | 1'4 | Cuttack | Cuttack |
| | 1.8 | 0.44 | 1.16 | 0.01 | 9.28 | 5.52 | +4.03 | 69.39 | 51.74 | +8.62 | 1.2 | 1:3 | Balasore | Balasore |
| | 3.0 | 1'48 | 2.02 | 1'84 | 18'37 | 7.72 | +10.65 | 65*65 | 61:00 | +4.65 | 1.0 | 1.2 | Saugor Island | South-West Midnsport South 24-Pergunnalis |
| 7 | 1.6 | 0.45 | 0.13 | 0.77 | 4'73 | 4.27 | +0'46 | 50:00 | 50.61 | | 0.3 | 0.9 | Midnapore | Midnapore |
| 100 | 1.7 | Nil | Nil | 0.76 | 8.23 | 4.17 | +4.06 | 55'09 | 50.26 | +4.53 | 0.0 | 1.0 | Calcutta | 24-Pergunnahs Howrah |
| | 1.9 | Nil | 0.52 | 0.76 | 4.99 | 3.97 | +1'02 | 61.16 | 45.82 | +15'34 | 0.3 | 0.0 | Burdwan | Burdwan |
| | 1'4 | Nil | Nil | 0.22 | 5'34 | 3'46 | +1'88 | 52'01 | 51:47 | +0'54 | 0.0 | 0.8 | Bankoora | Bankoora |
| | 1.6 | 0.01 | 0.11 | 0.47 | 8.08 | 3'46 | +4'6' | 63 58 | 51.45 | +12.13 | 0'8 | 0.8 | Raneegunge | Reerbhoom |
| | 1.0 | 0.85 | 0.52 | 0.28 | 7'44 | 4-22 | +3.22 | 6 . 22 | 49'66 | +10.26 | 0.2 | 0.6 | Berhampere | West Burdwan Moorshedabad |
| | 1.3 | Nil | Nil | 0.69 | 8'74 | 4.51 | +4.23 | 54 99 | 48'35 | +6.69 | 0.0 | 0.8 | Krishnaghur | Nudden |
| | 1.0 | Nil | Nil | 0.81 | 7.85 | 4.42 | +3.43 | 53 47 | - 54.85 | +1.25 | 0.0 | 1.0 | Instance | Jessore |
| | 3.6 | 0.42 | 0.28 | 1.26 | 3.88 | 6.66 | -2.78 | 117-69 | 110.40 | +7:29 | 1'0 | 1.4 | | Chittagong |
| | 1 | | 0.20 | 1'14 | 4:30 | 7.10 | -2.86 | 72.90 | 77:77 | -4'87 | 1.0 | 1'3 | Chittagong . | Chittagore Hill Parent |
| | 1.0 | Nil | Nil | 1.02 | 7'14 | 6'55 | +3.20 | 68.16 | 74:35 | -6'19 | 0.0 | 11 | Barrisal | Backergnage |
| | 0.3 | 0.02 | 1.33 | 0.89 | 8.80 | 6.37 | +2.43 | 97.88 | 103 16 | -5:28 | 1'5 | 1.0 | Nonkholly | Noakholly |
| | 0.6 | Nil | Nil | 0.65 | 7'53 | 4'44 | +3.09 | 45'42 | 54'34 | -8:92 | 0.0 | 0.0 | Furreedpore | Furreedpore |
| | 1.7 | 0.04 | 0.03 | U*84 | 5'18 | 4'45 | +0.73 | 58'19 | 59'07 | -0'88 | 0.2 | 0.0 | Dacca . | Dacca |
| | 2.8 | 1.28 | Str | 0.77 | 3 5.00 | 5'M | | | 66 95 | | | 0.9 | Commillab | Trpperah |
| | 2.4 | 0.50 | 0.08 | 0*74 | 9:03 | 5'41 | +8'62 | 75'68 | 68 10 | +7'58 | 0.3 | 1.0 | Mymensingh . | Mymensingh |
| | 0.0 | Nii 0:01 | Nil | 0.88 | 11.36 | 4.40 | +1.04 | 78'58 54'38 | 50°56 52°53 | +22.02 | 0.0 | 0.4 | Bogra | TYLE STATE OF CLASSING HIGH BURNING |
| | 1.0 | 0.01 | 0:06 | 0.22 | 10.05 | 3:73 | +6'29 | 74-93 | 52.62 | +1'85 | 0.7 | 0.6 | Serajgunge | Rajshabye |
| | 0.0 | Nil | Nil | 0.81 | 7:60 | 3.69 | +3.91 | 62.12 | 53'40 | +8'72 | 0.0 | 0.7 | Rampore Beaulea Maldah | Maldan |
| | 0.0 | Nil | Nil | 0.85 | 11'44 | 3.22 | +7:89 | 81.74 | 54.15 | +25'59 | 0.0 | 0.9 | (Newsons a | Diungenore |
| | 04 | Nil | Nil | 0.6) | 18:28 | 4'89 | +13:39 | 106.61 | 73.00 | +33.52 | 0.0 | 0.6 | Rungpore | Rungpore |
| | 10 | Nil | Nil | 0.74 | 14.08 | 5-29 | +9.69 | 154.21 | 109.23 | +44.98 | 0.0 | 0'7 | Julpigoree | Julpigoree |
| | 5'8 | Nil | 0.32 | 1:28 | 14'28 | 6.05 | +8'23 | 165.28 | 119:57 | +46'01 | 0.8 | 1.1 | Darjeeling | Darieeling Hill Treat |
| | 0.3 | Nil | Nil | 0.83 | 6.23 | 3'61 | +2.62 | 80'67 | 57'99 | +23'68 | 0.0 | 0.8 | | Purneah |
| | 0.0 | Nil | Nil | 0.61 | 1.79 | 8'41 | -1.61 | 52.57 | 42*67 | +9.80 | 0.0 | 0.4 | | Moznifernoro |
| | 0.0 | Nil | Nil | 0.67 | 174 | 2.92 | -1.18 | 67:63 | 43*90 | +13.73 | 0.0 | 0.8 | Mosufferpore | Durbhunga |
| | 0.0 | Nil | Nii | 0.51 | 5.67 | 3'64 | +3'18 | 68.47 | 45'89 | +22'58 | 0.0 | 0.8 | Motihari | Chumparun |
| | 0 | Nil | Nil | 0.45 | 1'48 | 4.51 | -2.73 | 53:60 | 41'67 | +11.03 | 0.0 | 0.3 | Chupra | Sarun |
| | 0 | Nil | | | | | | | | | | | Dehree | |
| ۱ | 0.8 | Nil Nil | Nil | 0.27 | 1'84 | 3:30 | -1.88 | 49.59 | 39.06 | +10.23 | 0.0 | 0.4 | Buxar | Shahabad |
| | 0.6 | Nil | Nil | 0.39 | 0:43 | 2 83 | -2.40 | 56'93 | 40'57 | +16'36 | 0.0 | 0.3 | Gya | Can |
| | 0 | Nil | Nil | 0.75 | 1'34 | 3.25 | -1.91 | 48'10 | 40"41 | +7.69 | 0.0 | 0:5 | Bankipore | Patra |
| | 0.6 | Nil | Nil | 0.77 | 8.17 | 3'20 | -0.03 | 52'25 | 42'34 | +9.91 | 0.0 | 0.0 | Bhagulpore | South Bhagulpere |
| | 0.7 | 0.11 | 0:02 | 0.64 | 10.51 | 3*75 | +6'46 | 63'47 | 20.10 | +18.17 | 0.3 | 0.4 | Doomka | Conthal Paymonaha |
| | 1.6 | Nil | Nil | 0.36 | 1 | 2:97 | 1 | | 48'84 | | 0.0 | 0.12 | Hazaribagh | Hazaribach |
| | 1.4 | Nil | Níi Núi | 0.12 | 1.63 3.31 | 2.7± 3°34 | -1.09 -u.03 | 47'01 41'43 | 46'95 46'04 | +0.00 | 0.0 | 0°8 0°7 | } Ranchi | Lohardugga |
| | 2.3 | Nii | Nil | 0.41 | 1.73 | 2.95 | -1.22 | 35'94 | 50 24 | -16'30 | 0.0 | 1.0 | | Singbhoom |
| ۱ | 8.6 | 1.09 | | | | | | | | | | 10 | Chyebassa Sibsagar 7 | Trans. |
| | 1.9 | Nii | | 319 | | | | | | and a | | | Dhubri | Assam |
| ı | 7.0 | Nii | 132 | 1202 | 314 | | | STALE. | | | - Sale | | Silchar | No. 12 al la libra. |

basing cloud amount represents the part of the sixy covered, the waste sky being denated by 10. Under the head District observations of rainfall the normal means as rears. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890.

| | | | | 1 | R | LINFALL | | 4 | 1 | То | TAL | | | | 100 |
|-----------------------------|---|--|----------------------------|-----------------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|--|--|--|--|---|--|
| Mateorological division. | District, | Station. | Saturday, 25th October. | Sunday, 26th October. | Monday, 27th October. | Tuesday, 28th October. | Wednesday, 29th Octoner. | hursday, 3 th October. | Friday, 31st October, | Number of rainy days. | Kainfall of week, | Total rainfall since 1st of month. | Average total rain- fall from 1st of month. | Total rain- fail since 15th May 1890. | Average rainfall from 15t May to date. |
| Onișia | Poorer | Pooree Khurdah Banpur False Point Gor Satpara | | 0.20 | | | 0*15 | 0°30 1°39 | 1.54 0.03 0.03 | 3 2 1 | 2:34 1:42 0:03 | 11 90 8 71 10 71 | 8:83 6:88 6:51 10:70 | 67 ⁻⁶⁹ 64 ⁻⁹³ 62 ⁻⁴¹ | 47-98 64-14 46-18 60-29 |
| | Quitack | Pipli Ingatsingpore Banki Cuttack Kendrapara Injore Dharmsala | | |) | | 0.10 | 0.42 0.63 0.03 | 010 009 009 | 1 2 1 | 0°10 0°12 0°49 | 8:54 7:81 6:32 | 6:80 4:40 5:65 6:27 5:08 | 80°30 52'56 52'69 | 45°12 45°88 54°56 51°30 51°48 |
| | Balasore | Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah | 1'58 | | | | | 1787 | 0°58 1°09 1°15 0°49 | 1 2 1 1 Nil 2 | 0°58 2°58 1°15 0°49 Nil 2°14 | 8°54 11°14 7°00 9°18 10°36 9:43 | 6744 4*fil 5746 6733 4756 8791 | 51.65 57.17 60.74 63.88 64.62 62.30 | 50°88 50°00 40°93 56°14 50°67 52°46 |
| SOUTH-WEST Bargar. | Midnapore | Contai Saugor Island Tumlook Midnapore Ghattal Kurrahaty Garbetta | | | | | | | 4'47 1'48 0'38 | Nil Nil Nil Nil Nil Nil | 4'47 1'48 NII 0'38 NII NII NII | 21.61 21.76 7.10 5.10 1.98 10.25 3.58 | 8°36 9°57 4°49 4°80 3°60 | 67.28 67.61 57.90 47.47 44.61 50.29 46.23 | 59°31 66°10 50°26 47°73 53°56 † |
| | 24-Pergumak | | | ****** ***** ***** ***** | ****** | | | | 0.15 | NII NII NII NII NII NII NII | 0°12 Nil Nil Nil Nil Nil Nil | 11:77 14:03 9:68 8:41 12:04 11:17 10:89 | 5'14 9 4'44 3 55 4'33 4'54 4'30 | 62'09 66'89 61'91 50'91 55'75 54'84 58'67 | 57-14 54-25 48-09 50-39 48-72 53-71 |
| | Houghly | Howrah Mohesreka (Ooloberiah) Serampore Hooghly Jehanabad | 0.0 HELLEY 925-51 | | | | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 7'06 5'28 8'41 6'17 3'21 | 4°34 3°43 4°19 4°10 4°48 | 51°34 59°57 54°27 52°05 51°57 | 49'86 50'71 49'91 47'17 54'91 |
| | Burdwa | Culna Burdwan Cutwa Raneegunge Mankur Bankoora | - | | | | | | 0.80 | Nii Nii 1 Nii Nii | Nil 0 80 0 01 Nil Nil | 3'97 3'50 7'49 8'83 3'38 | 3'95 3'94 4'04 3'42 7 | 54'11 64'97 64'36 60'44 47'80 57'76 | 43°26 47°19 46°91 68°47 1 |
| | Dallacota J. | Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghat kaipore Nonamukhi | | | | | P-0 | | | Nil Nil Nil Nil Nil Nil Nil | NII NII NII NII NII NII NII | 4'06 5'92 6'02 5'74 6'64 9'20 3'87 6'13 4'51 | 2:70 3:28 3:73 9 9 | 50°95 50°23 40°06 59°97 66°94 65°11 68°75 53°29 52°74 | 51'35'45'55'45'5'5'45'5'5'45'5'5'45'5'5'45'5'5'45'5'5'45'5'5'45' |
| | Beerbhoom | Bh. Soory Hetampore Rampore Hau Bolpore Murarai Ranaghat | | | | | | | 0.01 | 1 Nil Nil Nil Nil | 0°01 0°40 Nil Nil Nil Nil | 6:37 9:03 8:08 4:07 7:11 | 3 70 2 84 3 89 9 | 61°95 59°53 72°36 56°23 56°46 | 53'99 58'58 50'58 50'58 7 |
| | Khoolna | Kishnaghur Chocadanga Mcherpore Kooshtea Satkhira Bagirhat | | | | | | | | Nii Nii Nii Nii Nii | Nil Nil Nil Nil Nil | 7.67 8:27 13:25 6:39 7:04 6:35 | 3.78 4.21 4.41 3.72 5.03 4.76 | 55'46 61'45 47'08 58'86 52'09 57'13 | 45.01 50.09 46.85 53.58 |
| | Jessore | Khooina Nakipur Rampal Narail Jessore | | | | | | | | Nil Nil Nil Nil Nil | Nii Nii Nii Nii Nii | 7:99 15:18 11:44 12:01 9:76 | 5'24 4'19 Y Y 3'66 4'42 | 62'51 52'88 75'03 65'78 51'45 59'49 | 58'96 53'47 7 7 44'89 58'18 52'50 |
| | Moorahedabad | Magoorah Bongong Kandi Berhampere Lalbagh Azimgunge Jungipere Lalgola | | ****** | | | | | 0°89 0°42 0°30 | Nil Nil Nil 1 1 Nil Nil Nil | Nil Nil 0'89 0'42 0'30 Nil Nil | 5'95 5'19 8'50 4'81 7'61 7'59 6'85 8'46 | 4'81 3'81 4'69 3'93 4'48 4'51 4'72 3'28 4'38 | 54'16' 43'44' 46'66' 64'09' 59'22' 63'67' 58'27' 51'33' 64'70' | 48 37 50 61 40 10 50 35 40 14 50 26 48 48 50 46 |
| KAST BENGAL | Chittagong " | Jiagunge Akhrigunj Patkabari Cox's Bazar Uhittagong | 0 09 | 9:31 | 0.46 | | | | 0.40 | 1 1 1 2 | 0°40 0°50 0°46 0°40 | 8.63 6.60 3.30 4.38 | 7.70 5.67 | 61°99 Y 128°05 107°32 | 189 W |
| | Unitingong Hill Tracts, Backergunge | Rangmati Rangmati Ruma Patuakhally Perozepore Burraal | 0.08 | 0.36 | | | | | | Nii Nii Nii Nii Nii Nii Nii | 0°68 Nil 0°55 Nil Nil Nil | 6°30 8°85 8°60 5°00 9°49 6°17 7°07 | 6.08 7.83 6.08 5.74 4.68 | 211'60 81'26 69'89 76'91 70'01 62'91 65'70 | 80°55 74°99 84°65 67°86 65°40 72°46 |

statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890 -contd.

| | | | | | | RAINFAI | LL. | a same | | To | TAL | | E T | | |
|--------------------------|----------------------------|--|----------------------------|--------------------------|--------------------------|---------------------------|-----------------------------|----------------------------|--------------------------|---|--|--|---|--|---|
| sorological Division. | District. | Station. | Saturday, 25th October. | Sunday, 26th October, | Monday, 27th October, | Tuesday, 28th October, | Wednesday, 29th October. | Thursday, 30th October, | Friday, 31st October, | Number of rainy days. | Rainfall of week, | Total rainfall since 1st of month. | Average total rain- fall from 1st of month. | Total rainfall since 15th May 1890. | Average rainfall from 15th May to date. |
| BENGAL | | Gournaddi Bauphal | | | | | | | | Nil Nil | Nil Nil | 5'49 8'94 | | 42.66 73.26 | P |
| | Nonkholly | Nonkholly Fenny Harishpore Ramganj | 0.06 0.60 0.62 | 2.00 0.40 | | | | | | 1 2 3 Nil | 0.06 2.60 1.02 Nil | 10:08 7:53 10:90 4:80 | 6:89 5:82 P | 92°34 103°40 168°61 65°28 | 104-78 101-47 |
| | Furrendpore | Madaripore Furreedpore Goalundo | == | | | , , | - | - | | Nil Nil Nil | Nii Nii Nii | 8.71 7.38 6.49 | 4°21 4°33 4°82 | 41°91 49°45 44°90 | 54'63 56'87 53'06 |
| | Daces | Munshigunge Dacca Naraingunge Manickgunge Joydebpore | 0°04 0°09 0°87 | | | | | | | Nil Nil Nil 1 | Nil 0'04 Nil 0'09 0'87 | 4·17 6·06 3·26 7·23 6·35 | 5'50 3'94 4'45 3'95 | 57'78 54'58 60'71 50'71 66'26 | 68'40' 57'48' 50'96' |
| | Hill Tipperali Tipperah | Agartola Comilla Chandpore Brahmunberia Ramchandra- | 0°97 0°05 0°18 | 0.02 | | | | | | 3 1 1 | 0.02 0.02 0.03 | 8°21 5°12 5°37 | 5°32 4°25 6°16 4°79 | 67'24 56'78 54'64 | 59 79 73 98 73 72 60 38 |
| | | pore Nasirnagar Daudkandi Kasba Laksham | 0.27 | | | | | | | Nil Nil Nil Nil | 0°27 Nil 0°70 Nil Nil | 8°45 1°80 5°21 0°84 3°22 | 9-9-9-9- | 76.11 34.81 30.44 51.71 68.56 | P P P P P P P P P P P P P P P P P P P |
| | Mymensingh, | Kishoreguine Atia (Tangail) Mymensingo Jamalpore Netrokona Subornakhally Durgapore ShereporeTown Dewanganj | 0.40 | | | | | ***** | | Nil Nil Nil Nil Nil Nil Nil Nil Nil | Nil Nil 0'40 Nil Nil Nil Nil Nil Nil | 6°10 8°95 8°88 10°29 10°92 6°86 11°83 9°48 11°02 | 5'32 4'92 5'73 5'02 6'06 9 | 68:87 55:81 78:00 79:16 96:54 57:83 118:07 67:41 72:90 | 68'76' 54 62' 73'08' 64'25' 80'00 |
| NortH BENGAL. | Pubns | Pubna Serajgunge | | === | | | | | | Nil 1 | Nil 0.01 | 4°14 7°11 | 4'82 4'40 | 46°08 62°67 | 53°20 51'81 |
| | Rogra | Sherepore Nowkhilla Bogra Panchbibi | <u> </u> | | | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | 10:18 10:18 12:06 13:05 | 4°17 5°11 3°98 4°31 | 77-27 66:42 79:24 91:46 | 57°21 58°23 60°16 55°26 |
| | Kajahahye | Beauleah Nattore Naogaon Lalpore Manda | | | | | | | 0°12 0°07 | 1 Nil Nil Nil | 0°12 0°07 Nil Nil 0°70 | 10°43 16°00 9°63 8°66 12°97 | 4.46 4.44 2.29 8 | 71:34 87:29 66:15 52:38 48:04 | 52°25 53'98 51'82 |
| | Maldah | Maldah Chanchal Gajol Sibganj | | | | | | | | Nil Nil Nil Nil | Nil Nil Nii Nil | 6'87 8'33 6'52 13'10 | 4'39 2'99 P | 64'62 59'62 84'40 62'54 | 20.83 20.83 |
| | Dinagepore | Mohadebpore Churamon Raigunge Dinagepore Baloorghat Thakoorgaon | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 8°51 9°78 13°77 14°78 10°39 17°31 | 3'04 2'43 3'74 5'16 3'39 | 67'94 80'28 92'75 86'80 81'01 | 55 86 52 01 57 48 63 44 51 90 |
| | Rungpore | (Gyabanda) Bungpore Kurigram Bagdogra (Nilphamari). | | | | | | | | Nil Nil Nil | Nii Nii Nii Nii | 20°20 19°95 17°57 | 5°14 5°32 4°38 4°67 | 123.00 96.56 95.69 111.28 | 61°98 73°97 72°50 83°85 |
| | Jalpiguree | Julpigoree Alipore Dooar Fallacotta Debiganj | | | | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 17.78 18.29 14.27 16.59 18.22 | 5.68 P P | 97'52 156'26 187'47 146'30 115'70 | 116'63 Y Y Y |
| | Cooch Beharn, | Bhagatpore (Nagrakatta) Dinhasta Cocon Behar Mickilgunge Matabhanga | | | | 0.08 | 0*19 | | | Nil Nil Nil Nil | 0°25 Nil Nil Nil Nil | 15:49 16:98 12:49 13:01 14:14 | 7 5'14 5'42 4'01 6'29 | 182°64 128°95 169°37 146°35 171°61 | 94'43 117'91 104'85 111'86 |
| | Darjeeling Hill. | Silliguri Darjeeling Kalimpong Kurseong | | | 0.29 | 0.01 | 0.69 | | | Nil Nil Nil Nil Nil | 0.88 Nil Nil Nil Nil | 20°68 13°36 10°62 12°44 13°01 | 10°24 4°34 6°97 2°65 | 210'64 178'31 150'32 123'00 192'78 | 190-72 101-99 107-10 76-90 |
| IN BRHAR | Purneah | Kissengunge Arrareah Purneah Gondwara Baisrampore Matiari | | | | | | | | NII NII NII NII NII | NII NII NII NII NII | 13'32 6'43 6'68 | 3°35 3°54 3°96 2 | 105:38 83:78 89:36 100:45 63:95 | 69-63 63-11 69-91 f |
| | North Shagul- | Kaliaganj Maddapere Soepool Protabganj | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | 4.77 7.40 8.23 1.50 8.56 | 4'30 2'92 | 118'55 61'61 63'21 49'30 | 48°96 47°58 |
| A COL | Durbhunga | Tajpore Durbnunga Madhubani Bahera | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | 0'73 2'37 2'09 1'84 | 3:17 3:03 2:61 | 51:70 58:56 62:61 52:58 | 42:33 45:08 44:20 } |
| | Mesuflerpore | Sitsmarhi Mozufferpore Hajipore Part Mahua Siuhar Pupri | | | | | | | | Nil Nil Nil Nil Nil Nil Nil Nil | NII NII NII NII NII NII NII | 2.61 1.56 1.19 6.00 0.76 4.50 1.84 | 2.83 3.49 3.98 9 | 52'96 56'13 48'60 70'81 44'79 53'18 50'19 | 42'8/ 44'60 41'14 |

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890-coneld.

| "Jana Bara | | | | | R | AINFAL | L. | NO. | | Тот | AL | Television (| | | |
|-----------------------------|---------------------|---|----------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|----------------------------|----------------------------------|--|--|--|---|--|--|
| Mateorological Division. | District. | Station. | Saturday, 25th October. | Sunday, 26th October. | Monday, 27th October. | Tuesday, 28th October. | Wednesday, 29th October. | Thursday, 30th October. | Friday, 31st October. | Number of rainy days. | Rainfall of week. | Total rainfall since lst of month. | Average total rain- fall from 1st of month, | Total rainfall since 15th May 1890. | Average rainfall from 161 May to date. |
| NORTH BRHAR -concluded. | Chumparun | Motihari Bettiah Bagaha Burhurwa | | | | | | | | Nii Nii Nii Nii | Nil Nil Nil Nil | 6:46 4:89 2:12 | 8:50 8:62 ? | 72°06 64°89 58°86 | 64% 47% 2 |
| SOUTH BRHAR | Sarun | Gopalgunge Sewan Chuprah Buxar | ***** | | | | | | ****** | Nil Nil Nil Nil | Nil Nil Nil Nil | 1'67 0'81 1'95 1'80 | 5'03 4'00 3'58 3'36 | 52 67 59 84 48:37 52:47 | 45 31 42 96 39 65 41 41 |
| SOUTH DEHAK | | Bhabocah Sasseram Arrah | ****** ****** ***** | | -95.11 100111 100111 100111 100111 | | 111144 111144 111144 | ****** **** ****** | | Nil Nil Nil Nil | Nil Nil Nil Nil | 0'38 0'94 3'29 | 2.89 3.27 3.74 3.31 | 43°14 41°11 44°19 66°96 | 20.00 20.00 00.80 50.00 |
| | Gya . | Aurungabad Gya Nowadah Jehanabad Arwal Doudnagar Sherrghati | | | | | | | ***** ***** ***** ***** | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil Nil | 0°51 0°34 0°43 0°42 1°67 0°80 | 2.76 2.36 2.63 3.58 1 | 59:49 60:04 54:84 53:35 36:81 45:60 | 41 05 41 38 97 39 95 |
| | Patns | Rajanli PakriBarawan Patna Dimpore Rehar Barrh Bickram | | | | ***** | | | | NII NII NII NII NII | Nil Nil Nil Nil Nil | 2'97 1'02 1'97 1'11 1'25 1'38 | 3°88 3°27 3°22 3°17 | 54*24 50*02 52*13 46*95 43*25 58*35 | 41°10 40°00 40°00 58°00 7 |
| | Monghyr | Hilsa Begooserai Monshyr Jamui Gagri Sheikpura Bangulpore | | | | | | | | Nil Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil | 1.07 2.28 2.36 2.14 4.34 1.97 5.41 3.63 | 3°19 3°56 2°61 1°7 3°16 3°48 | 50°24 44°29 54°84 60°29 76°44 47°76 59°77 42°11 | 89°2 45°7 42°7 41°3 43°4 |
| | Sonthal Pergunnahs. | Banka Kelgemo Bongaon Rajmehal Godda | | ##***** ******* | | 100000 100000 100000 100000 | ****** | | | Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 8:59 5:66 T2:19 | 9 9 3:34 3:07 4:53 | 56°66 50°75 74°16 | 51'4 63'1 54'3 |
| | | Pakeer Nya Doomka Deoghur Jamtara Mohasama Nanshat | | ****** ***** ***** ***** | | ***** | | | 0:11 | Nil Nil Nil Nil Nil | NII NII NII NII NII | 12:35 4:18 18:25 3:28 | 4'30 4'33 3'20 P | 74·11 40·43 74·28 48·81 | 5 40°3 40°3 47°3 ? |
| CHUITA NAG- | Hazaribegh | Pachamba (Giridi). Hazaribagh Semtagurah | | | ****** | | | | 2 | Nil Nil Nil Nil | Nil Nil Nil Nil | 3.08 1.33 6.70 | 3·25 2·96 2·56 | 85°35 49°95 88°89 | 46°3 46°3 44°9 47°7 59°1 |
| | | Mahudi Hills Jhoomra Hills Barhi Chatra Kuraydeha Ramghar | | | | | | ****** | | NII NII NII NII NII | Nil Nil Nil Nil Nil | 1'90 3'00 2'05 5'89 2'53 | 2:90 ? | 56'80 50'24 47'08 57'34 50'24 | 591 |
| | Lohardugga | Lohardugga Ranchi Palamow Silli Balumat Hosseinabad | | | | | ARAPPE | | | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil | 1°76 2°54 0 59 5 40 1°29 Nil | 2:89 2:90 2:74 1 | 53°19 48°57 44°27 43°50 43°82 41°75 38°30 | 48'8 567 41'8 |
| | Singbhoom | Chyebassa Chakradhar- pore. Ghatsilla | 44 | | | 3 | | | | Nil Nil Nil | Nil Nil Nil | 1.73 1.70 5.25 | 2.92 | 33°94 24'83 51'46 | 501 |
| | Manbhoom | Baharagura Purulia Gobindpore Raghunath- pore. | | | | | | | | Nil Nil Nil Nil | Nii Nii Nii Nii | 3:08 3:59 3:34 | 3.09 2.25 3.25 | 44'22 38'63 61'86 | 461 647 |
| | | Barrabhoom Jhalda Chas | | | === | == | == | | | Nil Nil Nil | Nil Nil Nil | 1'90 8'51 5'32 | 1 | 44°15 64°71 50°18 | |

Explanation. -indicate that no rain has fallon. If the return for any day has not been received, the corresponding space is left blank. If any of the rates are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 4th November 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 31st OCTOBER 1890.

Weather, especially in the early part of the week, has been settled and fine over the whole province except in the south-west corner, where the influence of shallow local depressions in the south of the Bay gave showers and rather strong winds during the last three days. The first of these depressions crossed the extreme south of the peninsula, and the second, forming to the east, gave squally weather as far north as Diamond Island, where wind velocity rose to 17 miles an hour on Tuesday. This depression continued to influence the weather for some days, but as it approached the Madras coast it became very diffused and disappeared, leaving the pressure distribution characteristic of the season. A current of moist air, due to the disturbance, flowed northwards, and gave cloudy weather and scattered showers in Orissa and Lower Bengal, the heaviest rain falling in the Balasore and Midnapore districts on Friday, the last day of the week.

At the commencement of the week pressure was above 30 inches in Bengal and Assam, with lowest pressure in the centre of the province. Westerly or northerly winds were blowing at nearly all stations, and temperature, below the normal except in Orissa and the adjacent part of South-West Bengal, was falling rather rapidly almost everywhere. Pressure during the week underwent the usual small oscillations, but was never below the normal, and wind velocity was invariably low, while directions were irregular from the 28th to the 31st.

Pressure rose moderately on the 25th, fell slowly on the 26th, again rose moderately on the 27th, after which there was a slow fall till the last day of the week, when there was a very slow rise, the distribution being very little different from that at the beginning, but with lowest pressure in Orissa and isobars running east and west instead of north and south. The weekly means are above the normal except over the Darjeeling Hills, where, however, defect is only '003 inch. Elsewhere excess varies from a hundredth of an inch in the west of Assam and east of North Bengal to more than a twentieth of an inch in the southern districts.

Temperature has been generally below the normal except in Assam and Orissa, in the former of which mean excess is '4° and in the latter 1'1°. Defect is 2° in South Behar, 1'8° in Chutia Nagpur, 1'2° in North Behar, 1° in East Bengal, '9° in South-West Bengal, and '7° in North Bengal. The somewhat rapid fall of temperature at the beginning of the week continued till the 27th, when defect was between 3° and 4° at many stations, and averaged more than 3° in Chutia Nagpur and South Behar, and more than 2° in South-West Bengal. During the last four days changes were more irregular, but generally upwards. On the 31st excess prevailed except in Behar, North Bengal, and Assam, where there was still defect ranging up to 2°.

Rainfall.—Showers fell in East Bengal in the beginning of the week, and in Orissa and South-West Bengal at the end, while in the northern districts practically no rain has been received. Behar and Chutia Nagpur have been entirely rainless, and the average fall for North Bengal is only '01 inch. In the southern districts the mean falls are deficient, in East Bengal by '64 inch, in South-West Bengal by '53 inch, and in Orissa by '15 inch. Somes heavy showers fell on Friday, Contai in the Midnapore district receiving 4.47 inches and one or two other stations more than one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 31st of October 1890:—

| | | | TEMP | ERATU | RH. | | 医验 | | A /103 | B | AINPA | LL. | | 100 | 95.0 | |
|------------------------------|-------------------------|------------------------|-------------------------|-----------------------|-----------------------|---|----------|-----------------|---------------|-------------------------|-------------------------------------|------------|----------|-----------------|----------|-----------------|
| | g week. | week. | Avera | ges for | week. | shove or | 1000 | Of wee | k. | R | ainy d | ays. | Sine- | | | e 15th |
| Muthorological Divisions. | Highest observed during | Lowest observed during | Of highest of each day. | Oflowest of each day. | Of mesn for each day. | Average mean of week below normal mean of v | Ауегаде. | Normal average. | Variation. | Average number in week. | Normal average num- ber in week. | Variation. | Average, | Normal average. | Average. | Normal average, |
| Orisan | 90.4 | 68.9 | 86.9 | 73.2 | 80:2 | +17 | 0.98 | 1.13 | -0.12 | 1.3 | 1.8 | 0 | 8'51 | 6:16 | 61.08 | 51'24 |
| South-West Bengal | 89.3 | 62.1 | 85'6 | 68.6 | 77'1 | -0.0 | 0.50 | 0.73 | -0.23 | 0.3 | 0.0 | -0.7 | 8:07 | 4'33 | 56:66 | 51:00 |
| Rast Bengal | 86'2 | 65.8 | 84'0 | 70-1 | 77'1 | -1.0 | 0.25 | 0'89 | -0'64 | 0.2 | 1.0 | -0.2 | 6.55 | 5.43 | 71.25 | 72'59 |
| North Bengal | 87 8 | 63.3 | 84'5 | 67'3 | 75.9 | -07 | 0.01 | 0.98 | -0.57 | 0.1 | 0.6 | -0.2 | 12:30 | 4'38 | 94 87 | 68'67 |
| North Bohar | 86*4 | 58.9 | 84'7 | 65'4 | 751 | -1/2 | Nil | 0.60 | -0:60 | 0.0 | 03 | -0.3 | 3'59 | 8.54 | 04'38 | 47:90 |
| South Beanr | 89.9 | 57'8 | 85:1 | 63.0 | 74'1 - | -2.0 | Nil | 0.61 | -0.61 | 0.0 | 0'4 | -0.4 | 3'78 | 3.20 | 54.57 | 49:97 |
| Chutia Nagpur | 81.2. | 55'9* | 80.5 | 59.9* | 70'2" | -1.8* | Nil | 0.45 | -0 45 | 0.0 | 0.7 | -0.7 | 2 07 | 2:97 | 45.98 | 47'94 |
| Assam | 89:5 | 65:8 | 84'4 | 69.7 | 77'1 | +0'4 | | | 301001 | No. | | | | THE . | 220 | etri e |

METEOROLOGICAL OFFICE, BENGAL;

Chyebusss not included.

C. LITTLE,

The 4th November 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 26th October to 1st November 1890.

| | | | jo s | barometer | | TEMPER | RATURE | | | Hygrom | ETRY. | | WIND. | | | |
|--------|-------|-----------------|-------------------------------------|-------------------------------------|-------|----------|--------|----------|----------------|------------------|------------|-----------|-----------------------|-----------------|---------|-------------------|
| Month. | Date. | Maximum in sun. | Number of hours bright sunshine. | Mean pressure baron at 32° Fahr, | Mean. | Maximum. | Range. | Minimum. | Mean wet bulb. | Vapour pressure. | Dew point. | Humidity. | Prevailing direction. | Miles recorded. | Rain. | Weather. |
| | | 0 | | Inches. | 0 | 0 | 0 | 0 | 0 | Inches | 0 | % | | | Inches. | |
| Oct. | 26th | 138-5 | 10.3 | 29-928 | 75,16 | 83.4 | 16.1 | 67:3 | 70.2 | 0.669 | 67 3 | 77 | WNW and calm | 13 | Nil | Clear, A. |
| 'n | 27th | 143 5 | 10.3 | -939 | 75.4 | 83.4 | 16:5 | 66.9 | 70.6 | 686 | 68 0 | 79 | WSW and calm , | 19 | | Clear, A. |
| | 28th | 141-6 | 9.8 | 972 | 75.4 | 82-8 | 15.6 | 67.2 | 70.5 | -685 | 68-0 | 79 | Variable and calm | 9 | ,, | Chiefly clear, |
| 2 | 29tb | 137.7 | 9.4 | 939 | 75.6 | 82.8 | 14-6 | 68-2 | 71.3 | 713 | 69:1 | 82 | NNW and calm | 12 | " | Chiefly clea |
| ,, | 30th | 141-1 | 6.5 | 921 | 76-6 | 83.1 | 13-6 | 69-5 | 72.7 | 758 | 70.7 | 88 | ENE and calm | 22 | an . | Partialy cloudy |
| n | 31st | 145-5 | 4.0 | 938 | 77-6 | 83-5 | 11:1 | 72-4 | 74:4 | -819 | 73 2 | 86 | ESE and calm | 27 | , | Chiefly cloudy, o |
| Nov. | lst | 144-0 | 3.5 | -982 | 74.3 | 82.4 | 11.1 | 71.3 | 72.0 | 755 | 70-8 | 89 | Variable and calm, | 36 | 0.01 | Chiefly cloudy |

| | | | | THE RESERVE OF THE PARTY OF THE |
|--|---------------|--------------------|--------------|--|
| | | | | Inches. |
| The mean pressure of the seven days | | *** | | 29.938 |
| The average pressure of the corresponding period for | | | | 29.887 |
| The average pressure of the corresponding period for | ar yours, | DG. 5 OL | AGO TO A | |
| | | | | Hours. |
| The total number of hours of bright sunshine | | **** | | 53.8 |
| The maximum possible number of hours of sunshine | | | | 79.2 |
| | | great to the first | Europe State | 0 |
| The mean temperature of the seven days | | | | 758 |
| The average temperature of the corresponding period | | ars. SG.'s | Office | 78.9 |
| The extreme variation of temperature | | | Delici | 16.6 |
| | ••• | A PLANT REPORT | 0.0 | 83 5 |
| The maximum temperature | | | AND THE | |
| The second secon | CONTRACTOR OF | g Per Bulletonia | | Miles. |
| The highest velocity of the wind in one hour | *** | | **** | 5 |
| | | | | lbs. |
| The highest pressure of wind on one square foot | | | | 3 |
| | | | | 0/- |
| The mean relative humidity | | 200 | Sec. 11. | °/ 82 |
| The average relative humidity of the corresponding | period for | | | |
| Office | berroa ror | ,, | | 75 |
| Ollide | | | | |
| | | | | Inches. |
| The total fall of rain from 26th October to 1st Nove | | | ••• | 0.01 |
| The average fall of the corresponding period for 24 y | ears, SG | .'s Office | | 0.84 |
| The total fall from 1st January to 1st November 189 | | | P | 61.25 |
| The average fall of the corresponding period for 24 y | | 's Office | | 64.52 |
| the average rate of the components posterior for all | | | | - 4 m |

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph,

and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet

above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; d, drizzling rain, a, dew; =, fog.

J. H. GILLILAND.

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 3rd November 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 26th October to 1st November 1890.

| | | M. | | | TEMP | BRATURE. | | | 1 | HTGROMETRY | | hours |
|---------|--|---|--|--|--|--|--|--|--|--|---|--------------------|
| Monta. | Date: | Pressure at 10 a.m. corrected and reduced to 32 Fahr. | Daily mean. | Maximum. | Range. | Minimum, | Dry bulb at 10 A.M. | Wet bulb at 10 | Vapour pressure at 10 A.M. | Dew point at 10 A.M. | Humidity at 10 | Reinfall past 24 b |
| October | 26th 27th 28th 29th 30th 31st | Inches. 29.989 -996 30.033 -026 29.989 30.005 29.987 | 77-2 76-5 76-4 79-4 77-6 79-1 77-6 | 85·4 85·1 84·2 84·9 84·4 84·9 82·9 | 16.5 17.2 15.6 11.1 13.6 11.6 | 68-9 67-9 68-6 73-8 70-8 73-3 72-2 | 81·1 80·9 81·3 79·1 82·6 79·1 80·6 | 69·6 73·6 71·6 72·9 76·3 74·5 75·0 | 732 646 729 823 794 794 | 62-6 69-9 66-2 69-8 73-4 72-3 72-3 | % 54 70 61 73 74 80 76 | Inche |

| | | | | Inches. | |
|--|--|--|-----|--|--|
| The mean 10 A.M. pressure of the seven days | | 1 | | 30.004 | |
| The mean temperature of the seven days | | | *** | 77.7 | |
| The extreme variation of temperature | | | ••• | 17.5 | |
| The maximum temperature | | | | 85.4 | |
| | an down | | | 70 | |
| The mean 10 a.m. relative humidity of the seve | en days | | | Inches. | |
| | The state of the s | Committee of the commit | | The state of the s | |

The total fall of rain from 26th October to 1st November 1890 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 3rd November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 11th October 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 11th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29.5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 5.3 h gher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1889—vide the figures below:—

| and the first some of | 1885. | 1886. | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1890. |
|---|-------|-------|-------|-------|-------|---|-------|
| Ratio of births per 1,000 of the population per | 20'4 | 18.1 | 26.9 | 16.8 | 29.8 | 24.2 | 29'6 |

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

| . Transfer and the | WHER | s ending- | and the state of the same | | VRBES E | NDING- | |
|--|--|---|---|---|--|--|---|
| Towns. | 20th Sept. 1890. 27th Sept. 1890. | sth Oct. 1880. | Towas, | 20th Sopt. 1890. | 27th Sept. 1890. | 4th Oet. 1890. | 11th Oet, 1880. |
| Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Bali Krishnagar Ranaghat Santipore Jessore Hesnore Hesnore Jessore Hesnore Jessore | 21'4 16' 13'9 9' 39'4 18' 39'4 18' 39'7 28' 21'8 22' 10'5 17' 11'0 17' 12'0 24' 14'0 5' 57'8 57' 37'0 44' 15'6 21' | 8 17:0 18:8 1 36:5 41:9 2 47:1 49:1 3 94: 5:2 5 98:1 51:6 0 26:5 9:5 0 12:0 12:0 26:3 12:0 26:3 39:4 5 22:2 51:9 | Narainganj Chittacong Comillah Patna City Gya Arrah Mozufferpore Duribhanga Chupra Bhagulpore Wonghyr Purneah Poori Total | 37'3 4'7 19'3 14'6 49'6 49'6 57'4 25'5 37'0 38'2 19'9 46'1 11'4 12'6 | 41.4 11.7 27.0 11.4 26.0 10.1 24.3 38.5 13.1 22.0 39.8 10.4 12.8 | 87°3 6°4 15°4 19°8 36°9 4°9 24°3 40°9 38°8 20°2 57°9 10°4 14°7 | 4977 974 227 (6 1273 3077 4574 2972 4872 2078 1571 |

It will be seen that last week the highest birth-rate was returned from Monghyr (58.8) and the lowest from Jossore (6.1).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25·3 per 1,000 of the population. The rate of the week is 3·6 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below:—

| | 1885. | 1886. | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1890. |
|---|-------|-------|-------|-------|-------|---|-------|
| Estic of deaths per 1,000 of the population per sunum | 87'1 | 25'9 | 31.0 | 20°5 | 30.5 | 29'9 | 25-3 |

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

| | - | ' | VERKS I | NDING- | - | | ' | VREES E | NDING- | |
|--|---|--|--|---|---|--|--|--|--|--|
| Towns. | | 20th Sept. 1896. | 27th Sept. 1890. | 4th Oct. 1890. | 11th Oct. 1890. | Towns. | 20th Sept. 1890. | #7th Sept. 1890. | 4th Oct. 1890. | 11th Oct. 1890. |
| Surdwan Midnapore Hughi and Chinsurah Serampore 'Utterpara Howrah Rali Krishnagar Easnachat Santipore Jossoro Rampore Beaulesh Darjiling Baoos | | 19'8 17'0 24'6 29'4 28'3 15'2 38'd 11'3 29'9 14'9 14'8 21'4 | 24'4 18'6 21'3 49'1 18'9 14'9 35'1 18'9 6'0 6'1 36'8 37'0 22'1 | 30°6 15°5 24°6 28°3 18°2 28°3 18°2 24°6 6°1 12°5 18°3 18°4 22°2 17°5 | 24'4 27'9 27'9 43'2 28'1 18'3 28'1 6'7 12'0 30'6 44'7 44'5 18'2 | Narainganj Chittaeong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Moughyr Purnean Poori Total | 14 1 19 3 14 9 38 9 36 9 26 8 36 2 28 2 17 2 17 3 17 3 | 4°1 16 4 15 4 19 8 89 6 83 5 15 6 83 0 11 1 96 8 28 9 6 9 14 7 | 16'6 9'4 7'7 14'8 47'1 15'2 23'5 35'4 34'2 14'5 30'7 10'4 25'2 | 87-3 16-4 15-4 20-4 54-0 23-9 24-3 26-7 27-9 14-3 29-1 17-3 42-0 |

It will be seen that last week the highest mortality occurred in the town of Gya (54.) and the lowest in Santipore (3.5).

Measured by last week's mortality, the highest annual death-rates from cholers, fever

and other causes occurred in the following towns:-

| | Cho | lera. | | | - Fet | ver. | | Oth | her cause | 8. | |
|--------------|---------|-------|----------|----------|-------------------|------|--------------------|----------------------------|-----------|-----|-------------------|
| | | | atio per | | en e | | atio per mille. | | | | tio per nille. |
| Gya | *** | | 9.6 | Rampore | Beauleah | | 39.4 | Poori | | | 14.7 |
| Durbhanga | | | 9.4 | Gya | | | 36.5 | Midnapore | | | 13.9 |
| Mozufferpore | | | 7.3 | Burdwan | | 171 | 22.4 | Serampore | *** | *** | 13.7 |
| Arrah | *** | | | Serampor | e | | 21.6 | Monghyr | *** | | 12.6 |
| Chupra | | *** | 5.0 | | | | 10.11 | Chupra | *** | *** | 11.1 |
| l'atna City | ESZAD A | 13120 | 4.9 | 2000 | BUILD TO BE TO BE | | THE M | District State of the last | | | |

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3: from cholera, against 2:3 per 1,000 in the preceding week; '2 from small-pox, against '5; 12:7 from fever, against 11:7; 2:6 from bowel-complaints, against the same ratio; '6 from injury, against '3; and 6:1 from other causes, against 5:6 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Poori town, there being nine deaths (18:9 per 1,000 of the population).

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.

According to Class.

According to Age.

| | Ratio per mille. | | Ratio per mille. | | Ratio per mille. |
|--|------------------|------------------------------------|----------------------|---|--|
| Males Females Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population | 26.9 23.5 | Christians Hindus Mahomedans | 14·9 27·8 19·2 | Under 1 year 1 and under 5 years 5 , 10 ,, 10 ,, 15 ,, 16 ,, 20 ,, 20 ,, 20 ,, 80 ,, 40 ,, 50 ,, 60 ,, 60 years and upwards | 188 5 33 0 18 4 12 4 8 4 12 3 17 2 18 7 18 7 32 2 70 4 |

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 3rd November 1890.

Sanitary Commissioner for Bengal.

| NAME 1997 | • | • | | | | | | No. | | 9 | | 9 | | | - | | | | | | | æ | | | | 0 | 10 | | 11 | | 12 |
|--|--------------|----------------------|------------------|---|-----------------|--------|----------|-------|-----------------------|--------------------------|--------|--------------------|-----------------------------|------|----------|-------|-------|--------------|----------|------------|----------|---------------|----------|-----------------|--------------|-----------------|--------|----------|----------------|---------------|---------------------|
| MANANA WARNANA WARNA WARNANA WARNANA WARNANA WARNANA WARNANA W | | | | | | | | | | | | | | | | | | | | CORT. | LITY | | RDIN | G TO- | | | | | | | |
| NAME 1965 | | | <u>~</u> | PUI.AT | ION. | | | | SIRTH | á | | | | | | | | | Disea | | | | | | | -pad | | | Sex | | |
| Processor Proc | | NAMES OF | | | | No. | | | RATIO OF PO PER | PER 1, ULATI ANNUM | | £30A0 03 81 | | D | Едтив | FROM | | | 2 | | s 1,0 | AON | PULA | TION P | 8 8 | edt mi a | | 1 | RATIO 1,000 | 1 Ol Billiane | -Jodosa v |
| were in thingstone (1.57) (1.52) (1.5 | | TIPS. | 100 | Formales. | Total. | Malos. | Females. | Total | Males. | | | 109 female births. | politica de la composito de | | THE REST | | 14 | The state of | Cholera. | small-pox. | Ferora | Bownleanints. | . Canful | Other diseases. | CARLES STORY | muun sed notset | Malos. | Femalos. | Malos. | 77179 | tion such mortality |
| The control of the co | | Burdwan | - | - | - | 10 | | 0) | 1.6 | - | 18-7 | 200 | 1 | 1900 | 16 | - | 1 | - | Lad | ! | 6.53 | 1.6 | W. 34 | 17 | P. F6 | 30.2 | 10 | • | 8.88 | 19.2 | |
| Harman | | Midnapore | | | NOR | - | 10 | 13 | 10.8 | | 18-6 | 140 | . 1 | | * | 99 | | | | 1.9 | 9 | 9.9 | 1.5 | 13.5 | 6.48 | 15.5 | 0 | ٥ | 9.42 | 1.82 | |
| Hamman Market Barray (1985) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | - | | | | 18 | 139 | 100 | 9.46 | | 0.15 | 150 | 1 | 1 | 00 | 02 | | 8 | | I, | 13.1 | 6.9 | 1 | 8.6 | 6.48 | 9.45 | 10 | 1 | 8.50 | 23.0 | - |
| Herenta State | • | Serampore | | | 26,496 | 13 | 12 | 255 | 5.95 | | 1.65 | 108 | 1 | TO | n | os. | 01 | 01 | | | 9.13 | 8.8 | 3.9 | 13.7 | 48.8 | 7.65 | 120 | 10 | 0.94 | 2.05 | SE |
| Harden H | ···· • nodun | Utterpara | 3,046 | | 5,510 | 60 | - | • | 28.3 | 20/4 | 37.7 | 300 | | 1 | 1 | | | 01 | | 1 | 8.6 | | J | 18.6 | 58.3 | 58.8 | 91 | - | 34.1 | 21.1 | |
| Residence (1978) (1971) | , | 1 | | 9.005 | <u> 1991 20</u> | 252 | 75 | 51 | 15.5 | | 3.68 | 112 | 1 | 1 | 16 | 0 | 1 | 69 | 04 | 1 | 9.8 | 8.4 | 9. | 1.9 | 18.8 | 18.9 | 18 | 13 | 18.6 | 18.0 | |
| Statement Stat | au. | | | 3101 | JAN TIL | 10 | • | 6 | 17.5 | - | 9.18 | 125 | - | 1 | 80 | Ell's | | 1 | ès | ŧ | 1.18 | 1 | 1 | 3.2 | 1.88 | 9.5% | 60 | 10 | 19.9 | 37.8 | |
| Sampler Samp | | Krishnasar | 18,263 | | 271115 | 21 | 20 | 9 | 90 | - | 9.0 | 28 | 1 | | 64 | | 1 | | | | 8.8 | 1 | 1.6 | i | 2.2 | 18.5 | - | 61 | 0.50 | 7.8 | |
| Satisfying Lagran | The second | 1001 | 4,028 | | 8,688 | 04 | i | Ot. | 13.0 | | N 0.81 | o female | 1 | | 1 | 1 | | 1 | | : | 6.9 | : | 13 | 0.9 | 0.81 | 0.9 | 1 | 09 | 13. | 22.3 | |
| try Mannyer feather, 1,489 S,469 S,469 S,409 | | Santipore | - 100 | - | | 10 | 0 | 10 | 8.1 | | 17.6 | 100 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1.1 | 1 | 1 | 1.7 | 19.00 | 12.3 | 1 | 1 | 8.8 | 80 | 1 |
| | ore | | 4,830 | | 8,496 | 1 | - | * | 1.9 | 1 | 8.1 N | o female | 1 | ; | | | 01 | | 10 | 1 | 18.4 | 1 | 10.01 | 1 | 9.08 | 18.4 | 01 | 62 | 51.5 | 42.6 | |
| | dishye | Rampore Beanles | | 2010 | 19,791 | = | * | 15 | 58.6 | - | | 275 | 1 | - | 115 | | 1 | 1 1 | | : | 8.68 | 1 | 9.8 | 9.8 | 44.7 | 8.98 | 10 | - | 48.3 | 8.09 | |
| National Continue | Hing | | | 1010 | 7,018 | 20 | | | 21 21 | - | 6.79 | 7.6 | 1 | | 62 | 29 | | - | 10 | 1 | ?* 63 | 14.8 | 1 | 4.4 | 44.5 | 62.50 | 7 | 04 | 42.4 | 9.57 | |
| Serial Maniparia (Acide and Serial Maniparia (Acide an | , | Daces | 42,789 | (E) | - | 16 | 13 | 8 | 10.4 | | 18.8 | 123 | - | 11 | 7 | 7 | 1 | 64 | | 1 | 4.0 | 4.5 | 9. | 7.8 | 18.5 | 17.6 | 14 | * | 17.0 | 19.2 | |
| Objection Objection 1,13,200 8,190 2,13,13 8,190 2,13,13 1,13,13 < | | | | 30% | 12,561 | 49 | 9 | 18 | 82.53 | | 2.65 | 100 | | 1 | 10 | - | 6 | 01 | * | 1 | 20.1 | 1.4 | 9 | 8.3 | 37.3 | 16.6 | 00 | - | 24.1 | 9.01 | |
| This is complish in the size sizes s | ttagong | | | 1111 | 200 | 01 | 01 | * | 4.1 | 1.1 | F-6 | 100 | 1 | 1 | + | 04 | | - | | 1 | 6.6 | 4.1 | | 69 | 16-4 | 4.6 | 9 | 1 | 4.83 | 6.9 | |
| Line Openant 1 2 1 1 2 1 1 2 1 1 2 1 2 2 2 1 1 2 | persh | • | 50 | | - | 103 | * | * | 9.11 | 200 | 0.48 | 75 | 1 | 1 | 01 | - | | 44 | - | 1 | 17 | 1 | 1 | 7.7 | F-91 | 17 | 64 | 09 | 12.8 | 19.4 | |
| Load Arrah Gys 11 15 30-7 104 14 15 | | Patna City | - | - | 160,237 | 16 | 81 | 38 | 50 61 | | 18.3 | 75 | 115 | 1 | 83 | 9 | - | 15 6 | 4 69 | | 8.1 | 1.9 | 60 | 6.9 | \$0.4 | 14.9 | 35 | 88 | 23.1 | 17.9 | |
| Arrah 20,000 20,500 40,400 15 26 17 1 20 72 143 143 143 143 15 26 77 109 100 10 <th< td=""><td></td><td>Gys</td><td>88,990</td><td>200</td><td>76,121</td><td>23</td><td>83</td><td>45</td><td>16.7</td><td>0.00</td><td>30.7</td><td>101</td><td>14</td><td>1</td><td>53</td><td>.04</td><td>(2 to</td><td>2 01</td><td>6</td><td>1</td><td>36.5</td><td>1.4</td><td>1</td><td>8.9</td><td>64.0</td><td>1.75</td><td>\$</td><td>38</td><td>8.69</td><td>1.84</td><td></td></th<> | | Gys | 88,990 | 200 | 76,121 | 23 | 83 | 45 | 16.7 | 0.00 | 30.7 | 101 | 14 | 1 | 53 | .04 | (2 to | 2 01 | 6 | 1 | 36.5 | 1.4 | 1 | 8.9 | 64.0 | 1.75 | \$ | 38 | 8.69 | 1.84 | |
| Monthenger \$8,054 18,655 18,774 28,05 66,650 35 40 197 197 197 18 16 2 16 2 16 2 16 2 16 2 16 2 16 2 16 2 16 2 16 2 17 2 17 2 17 2 17 2 18 2 | habad | Arrah | 20,960 | 22,506 | 48,485 | 15 | 53 | 38 | 17.9 | 1 | 2.25 | 65 | 9 | 1 | 12 | , | 1 | 1 2 | 1 | 1 | 14.3 | 114 | 1.5 | 1.5 | 68.8 | 13-5 | - | 13 | 17.4 | 90.0 | |
| ra Durbhanga 35,774 53,522 66,004 56 275 167 43°3 175 12 16 5 5 34 94 126 22 5 36 10 10 11 2 10 1 11 2 11 | ufferpore. | Mogufferpore | 28,084 | HOC | | 16 | 90 | 24 | 19.2 | 3 - 1 | 2.68 | 200 | 9 | | 6 | - | 1 | 01 | 1. | i | 10.9 | 1 | | 6.3 | 84.3 | 92.25 | 11 | 6 | 8.42 | 8.88 | |
| Chuptra 85,116 Sa,564 51,670 27 21 21 48 272 217 48 49 128 5 1 1 1 2 11 27 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 2 1 | bhanga | Durbhangs | 33,774 | | 250,39 | 35 | 20 | 99 | 27.5 | | 43.3 | 175 | 12 | | 16 | 60 | | 83 | .6. | 1 | 12.6 | 29.3 | 1 | 60 | 26.7 | 85.4 | 20 | 14 | 8.08 | 20.75 | |
| Honghyr 28,546 57,518 57,453 24 52 57 217 20'S 45'S 104 11 2 14 63 15'4 1'S 27 14'S 14'S 11'S 4 21'T 20'S 45'S 17'S 20'S 58'S 100 17 2 14 63 15'4 1'S 15'4 1'S 15'5 1'S 20'S 58'S 17'S 20'S 20'S 20'S 20'S 20'S 20'S 20'S 20 | 01 | Chupra | 25,116 | | 61,670 | 27 | 9 | 48 | 67.73 | - | 8.85 | 128 | 10 | 1 | 1 | 61 | 1 | 8 | in. | 1.0 | 7.0 | 0.5 | 129 | 17.1 | 81.8 | 97.00 | 10 | 17 | 20.1 | 33.3 | |
| Mongkhyr 28,154 29,366 57,520 40 23 65 56°3 20°3 20°3 58°8 100 17 2 14 533 15°4 1°3 29°8 50°7 19 14 35°1 20°1 20°1 20°1 20°1 20°1 20°1 20°1 20 | 2 | Bhagulpore | OLF O | - | 10000 | 25 | 23 | 4 | 21.7 | 1 | 9.65 | 104 | 8 | - | 11 | 01 | | 3 1 | | 1 | 10.0 | 1.8 | 1 | 2.7 | 14.5 | 14.6 | 12 | | 1.12 | 1.6 | 61 |
| Purneal 8,463 6,553 15,016 1 5 6 35 173 20.8 20 4 1 5 158 35 173 10.4 Poort 15,347 11,537 24,784 5 6 9 10.7 8.4 18.9 155 1 3 9 7 20 21 6.3 18.9 147 42.0 25.3 | | Monghyr | 1 | 10000 | - | 96 | 153 | 99 | 26.5 | 7.1 | 8.89 | 160 | 61 | 1 | 17 | 01 | | * | - 1 | 1 | 15.4 | 1.8 | 31 | 12.6 | 8.68 | 20.2 | 19 | 14 | 35.1 | 8.42 | - |
| Poder 15,347 11,037 24,784 5 6 9 10'5 8'4 18'9 125 1 3 9 7 20 21 6'3 18'9 157 42'0 20'3 | | Purnesh | 1100 | | 15,618 | 1 | 9 | 9 | 3.2 | | 8.03 | 20 | | | | | | 1 | | 1 | 13.8 | i | 1 | 3.2 | 17.3 | 10.4 | 61 | 63 | 18.3 | 83.8 | |
| | | Peori | - | | 24,784 | 9 | • | 9 | 10.2 | 700.55 | 6.87 | 125 | 9 | 1 | es | 0) | , | 88 | - | 63 | 6.3 | 100 | 1 | 147 | 48.0 | 52.5 | 24 | • | 1.1 | 36.1 | |
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| | | 7.1 | | 5 0 | | Class. | | | | | | | | | | | | | | | | Age. | | | | | | | | | |
| DISTRICTS. | MUNICIPALI. | | DEATE | DRATHS AMONG- | 108 | | RATE | PER I | 1,066 OT | RATIO PERI,000 OF POPULA. | ; | 37 | | 201 | Dis | DRATES. | 1 42 | | | | | | RAS | NEW OIL | 1,000 0 | RATIO PER 1,606 OF POPULATION | ATTON | PER AMNUM | TUK. | | 1 |
| | | Ohristisns. | Hindus. | .ensbemodaM | .szeidbbud | Other classes, | .erraisatudo | Hindus. | Anhomedans. | .esstdbbufl | Other olneses. | Under 1 year. | Sand under 5 years. | years. | years. | years, | 90 Taban bna 08 | 06 Tobin bns 01 | years. | years, and up- | Wards, 1 year. | Marie Control | land under5 years. | Of and under 10 years, | to sad under 15 years. | years, years, | 20 and under 30 years. | 30 and under 40 years. | 40 and under 50 years. | 50 and under 60 years. | -qu bas snd up- |
| | Surdwan | 1 | Ξ | 10 | | 1 | 1 | 01 01 | #2 10 00 | 1 | ; | ga | 01 | - | ** | | | 91 | 94 | | 15 | 3.191 | 46.1 | 50 | 0.89 | | | 15.1 | 20.00 | 91-9 | 105.8 |
| eros | Midnspore | 1 | 1.3 | ia | 1 | 1 | Ť | 1.95 | 98-0 | 1 | i | 10 | | - | | - | 1 | 1 | | 1 | 348 | | | 13.9 | | 16.5 | Į. | 5.6 | 14.0 | 0.70 | 0.831 |
| Hush'i | Hughli and Chin- | i | 15 | 01 | 1 | 1 | | 6.08 | 16.9 | 1 | i | d) | 1 | | - | 110 | 03 | 91 | | + | 12 | | 7.55 | | | | 16.8 | 18.5 | 6.64 | 0.08 | 50.3 |
| Serampore } | Serumbore | 1 | 8 | 41 | 4 | | 1 | 41.3 | 6.011 | et. | 1 | 10 | - | 4 | 93 | | | 10 | | | 38 | 7.998 | 8.83 | 82.7 | 20.2 | 1 | 1 | 2.39 | 15.4 | 1 | 112.1 |
| • | Utterpara | 1 | 90 | | - | 1 | ı | \$2.65 | 1 | | 1 | 1 | 1 | | | , | 1 | 1 | - | 1 | 1 | | | 1 | 1 | 1 | 62.5 | 0.69 | 74.2 | | 1 |
| Howrah | Howreh | | 501 | 9 | 1 | 1 | T | 19.8 | 15.5 | 1 | 1 | 9 | 20 | 09 | 1 | | 10 | 1 | 03 | 21 | 15 | 2.191 | 6.95 | 8.48 | 1 | | 11.6 | 183 | 8.8 | 18.9 | 27.7 |
| , , | Ball | | - | : | | | 1,529.4 | 27.1 | | 1 | ; | 1 | 03 | - | - | - | | 1 | 1 | | 1 14 | 143.6 | 1.501 | 8.85 | 43.8 | 39.0 | -1 | 18.0 | 3 | 1 | 71.0 |
| Nudden | Krishnagar | 1 | 92 6 | | 1 | 1 | 1 | ** 60 | 1 | 1 | | 1 | - | | | | 1 | 1 | | | - | | 21.1 | 1 | | 1 | 8.01 | i | 1 | ŧ | 30.1 |
| | Santinger | 1 | 9 9 | | + | 1 | 1 | 14.3 | 1 | | 1 | 1 | 1 | - | | - | - | | 1 | 1 | - | | | 9.95 | 1 | 2.88 | 1 | 1 | 1 | 1 | |
| Jessore | Jasenra | 1 | | | 7 | i | | 0 0 | 1 | i | ī | • | 1 | , | | 1 | | | | | 1 61 | 1.2 | 4 | 1 | 1 | ı | 1 | 1 | 1 | 1 | 28.2 |
| hye | Rampore Beauleab | 1 1 | | 9 2 | 1 | 1 | | 0.00 | 2 0 0 | 1 | | O(U) | 1 | - | | 1 | | 1 | 1 00 | 1 | 1 | | | 9.29 | i | 1 | 1 | 34.0 | 148.6 | | 1 |
| 1 | Dariffing | | 6 | | 1 | 1 | | 10 E | 0.00 | | | 9 81 | | - | 1 | 400 | | | 10 | 1 | 7 38 | | | 52.0 | 6.83 | 1 | 12.2 | ı | 9.89 | 6.15 | 878.0 |
| | Daces | | 138 | 10 | | : 1 | | 0.00 | 2 9 | 1 | 1 | | | | | , | | 1 | 1 | | 1,28 | 8.693 | | 1 | | | 56.0 | 26-3 | 1 | 1 | 307.7 |
| Daecs{ | 183 | 1 | 1- | 91 | | | 1 | 27.6 | 16.91 | : | ı | | 0 - | | 94 | | | | | 98 | 130 | | 44.3 | 21 | 13.1 | 1 | 8.55 | 4.9 | 1 | 0.55 | 87.8 |
| Chittagong | Chittegong | 1 | | 9 | | | 45.9 | | 4.0e | | | - | | | | | | | | | 18 | * | 9.9 | 28.4 | | 1 | 1 | i | 149.3 | | 129.2 |
| | Comillah | | - | - 00 | Loui | 1 | | : 5 | 61.1 | i | | . ' | | 1 | | - , | | - | 1 | | 100 | 100 | 1 | 1 | 50.5 | 5.13 | 1 | 12.6 | 23.0 | 1 | 1961 |
| Patna | Patna City | | 77 | 100 | • | | | 96.00 | | 1 | | | | | 1 | | | 3 | 1 | 175 | 17 | 175.1 | | 1 | 32.6 | 41.3 | | | | 1 | 76.7 |
| Gys | Gra | | 9 | 10 | | I | | 0 00 | 9 20 | | | p t | 9 | 0 | 10 | 92 | 10 | 4 | 4 | 7 | 0 10 | 9.801 | 7.17 | 19.4 | 18.1 | 14.0 | 18.0 | 8.3 | 11.0 | 8.97 | 27 |
| abad | 100 | | 91 | | 1 | 1 | 1 | 9 9 | 0 00 | 1 | i | | = | 01 | | 01 | - | 1 | 10 11 | 2 | 6 903 | + | 0.08 | 14.8 | | 19.9 | 1.45 | 44.9 | 62 62 | 102.9 | 191 |
| - | | | 07 | • | | i | | 8.92 | 16.8 | 1 | | 1 | 60 | 9 | | | | 61 | | * | 10 | | 33.3 | 8.09 | | : | 1 | 16.5 | 1 | 2.19 | 963 |
| - | Mozufferpore | 1 | = | 9 | 1 | 1 | | 93 93 | 52.0 | | 1 | 4 | Ø1 | 0.0 | | 1 | 100 | 91 | 91 | 91 | 2 217 | 70 | 23-7 | 23.1 | 1 | 17.2 | 18.5 | 14.9 | 8.03 | 32.0 | 42 |
| | Durbhanga | T | 23 | п | 1 | - | Service Services | 17 100 | 32.6 | i | 1 | 10 | - | * | 60 | 1 | 20 | 9 | | | 3 16 | 0.291 | 8.44 | 9.96 | 1.83 | 12.9 | 11.7 | 28.0 | 21.0 | 1 | 88 |
| | Chupra | | 16 | 90 | Ł | Ł | 1 | 9.10 | 13.1 | : | i | 9 | * | 1 | 1 | | 4 | 4 | pri | 4 | \$ 221.7 | | 8.09 | 8-7 | | | 9.55 | 1.95 | 8.6 | 8.09 | 45.5 |
| 1 | Shagulpore | 1 | 12 | * | - | 1 | | 15.7 | 12.1 | 1 | 1 | 4 | 1 | 01 | | | 93 | 93 | | | 900 | 6,502 | 9.6 | 177 | | - | 12.6 | 11-9 | 1 | | 287 |
| 1 | Monghyr | 1 | 83 | * | | - | - | :8.7 | 16.5 | 1 | 1 | 14 | * | - | 9 | | 04 | | 91 | | 1 49 | 5.005 | \$3.4 | 1. | 92. 51 | 1 | 101 | i | 16.8 | | 101 |
| | Pitramah m | - | 70 | 01 | 111 | 1 | | 17.0 | 18.4 | 1 | | 64 | 1 | | | 1 | 1 | | 34 | | 367 | 10 | 43.0 | 1 | 1 | 2.32 | - | 1 | 1 | 52.2 | 1 |
| | room m | | 65 | | 1 | 7 | | 5.55 | 1 | i | 1 | 09 | 1 | | - | 1 | | 4 | - | 9 | 51 | 6.9 | 6.83 | 2.83 | | - | ; | 21.3 | 15.6 | 139-8 | 115-2 |
| | Torit | 94 | Aux | 1000 | | | 9.240 | 0000 | 10.01 | 1 | 1 | 1 3 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | + | 1 | 1 | i | 1 | 4 | 1 |

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of July 1890, as compared with the same month of the previous year.

| | | | | | 18 | 90. | 1889 | | Tot | ral. | | |
|--|--------|------|----------|-----|----------------|-----------------------|-----------------------|--------------------------|------------------------|--------------------------|----------------------|------------------|
| STA | PLES. | | | | Up. | Down. | Up. | Down. | 1890. | 1889. | Increase. | Decreas |
| Coal | :: | | | | Tons. 2,682 2 | Tons. 2,251 117 | Tons. 11,565 10 | Tons. 54 67 | Tons. 17,462 119 | Tons. 11,619 77 | Tons. 5,843 42 | Tons |
| Cotton twist and yarn- 1.—European 2 Indian | | | | | | fi. | | | 4 5 | | | |
| Cotton piece-goods— 1.—European— a.—In bales i b.—In boxes | and bu | ndle | | | 2,186 | 130 | 1,997 | 201 | 2,266 | 2,198 | 68 | |
| b.—In boxes 2.—Indian— a.—In bales a | | | | | | | | | | | | |
| 6In boxes | *** | | | | , | 47-10-1 | - 1 | 2.00 | 1100 | | (1) 2h - H | |
| Grains— 2.—Rice 5.—Others | | 3. | | :: | 1,660 1,226 | 3,411 3,868 | 1,886 691 | 2,239 6,484 | 5,071 5,094 | 3,825 7,175 | 1,446 | 2,081 |
| Hides and skins— 1.—Hides of cattle- a.—Pressed | *** | | | | 1 | in . | | | | | | |
| b,-Undressed | &c | *** | *** | | | 580 | 6 | 633 | 580 | 639 | Calorin . | 59 |
| aDressed bUndressed Jute- 1Raw- | 1 | | | " | | War at | | | | Tupice 16 | | |
| a.—Screwed b.—Unscrewe 2.—Gunny-bass and | | ::: | *** | | 3 69 | 881 18,348 977 | 1 9 136 | 1,911 15,279 1,253 | 881 18,351 1,046 | 1,912 15,288 1,389 | 3,063 | 1,031 |
| letals— 1.—Copper, unwroug 2.—Brass, unwroug | ght | | | | | | | | | | W. C. | |
| 3.—Brass and coppe | r, wro | ught | | | 1,233 | 58 | 1,055 | 114 | 1,291 | 1,169 | 122 | |
| 6Others | | *** | *** | | 776 | | 1,3 2 | 8 | 776 | 1,330 | | 554 |
| 3.—Others | | | | - | 410 | 75 | 231 | 8 | 485 | 239 | 246 | |
| 2.—Rape and musta 3.—Til or gingelly | *** | | | | 170 | 3,183 | 102 | 4,823 | 3,353 | 4,925 | | 1,573 |
| 6.—Poppy | | *** | | ::: | | | | | | | LTS: Vill | |
| rovisions— 2,—Betel-nuts 3.—Others | | | | | 104 445 | 661 178 | 139 848 | 189 4:3 | 765 623 | 321 831 | 444 | 208 |
| tailway plant and rolli | ng-sto | ok | *** | | 5,400 | 24 | 5,262 4,658 | 2,518 | 10,985 5,424 | 7,780 4,681 | 3,205 743 | |
| 1,Drained 2,Undrained | | **** | | | 975 | 205 | 347 | 484 | 1,180 | 831 | 349 | |
| 1.—Foreign 2.—Indian | | *** | | :: | } | 1,797 | | 1,640 | 1,797 | 1,640 | 157 | |
| 1.—Timber 2.—Firewood | :: | | | - | 1,863 62 | 2,077 | 178 1,948 85 | 2,773 | 93 1,863 2,139 | 224 1,948 2,858 | | 141 85 719 |
| ll other articles of mer 1.—Unmanufactured 2.—Manufactured | | iso- | | | 4,509 | 2,605 | 2,928 | 2,248 | 7,114 | 5,176 | 1,938 | |
| ay, straw, and wooloo | (C. & | SE. | Section) | [| 537 | | 772 | | 537 | 772 | | 235 |
| | | | Total | | 24,312 | 41,459 | 35,169 | 43,478 | 89,285 | 78,647 | 17,666 | 7,028 |

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of July 1890.

| | | | | In | OREASES. | | | | | Tons. |
|------------|-----------------------------------|-------------------------------|--------------|------------|-----------------|------------|-------------|-----------|-----------|--------|
| | Coal | | | | 7 | | | | | 5,843 |
| - 1 | For railway and flotilla c | A STATE OF THE REAL PROPERTY. | | | A COLUMN | | | | | #COURS |
| | Rice This increase was contrib | atad be static | me or the | Northon | Castles the | Calautta | | | . "" | 1,446 |
| | Jute, unscrewed | THE RESIDENCE OF STREET | | | | | | | rable. | 0.000 |
| 1 | Kooshtea, Goalundo, and | Sernigani co | ntributed | about one | -half of this | incresse | and the | Northann | Section | 3,063 |
| gener | ally the remainder. | company co | TIGITO GISCG | acout one | man or one | Merense | and the | Northern | эесион | |
| | Railway plant, &c. | | | NAME OF | | | 100 | | | 3,205 |
| May 1 | For repairs and renewals | THE PROPERTY | | | | | | | THE CASE | 0,200 |
| | | | | *** | *** | | | *** | | 743 |
| | The increase appears in t | he bookings i | from Chit | pur. | | | | | | |
| | | | | | | | | | | |
| | | | | DE | CREASES. | | | | | |
| | Jute, screwed | | | | | | | | | |
| Mes 2.5 | Narayanganj shows the | instant de lit | | on Abia be | | *** | S. Mention | BIT BALLS | *** | 1,031 |
| MILE Y | Oil-seeds | principal rain | ng on und | er this ne | ad. | | T. S. TIMES | | | |
| 0.000 | Good crops in the distric | | | *** | A series United | *** | *** | | *** | 1,572 |
| E L | Tobacco | t, and an imp | roved mai | Ket. | | | | | W PRODUCE | |
| | Kawaia and Rungpur sh | on the main of | al damen | maid 4 | | *** | | | *** | 719 |
| Charles S. | comme more seams but on | on one princi | but necten | ses, sauce | o be ude to I | leavy rain | min and n | DOCE. | | |

F. P. Quinlan, Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of August 1890, as compared with the same month of the previous year.

| Cotton piece-goods | | | Down. | Up. | Down. | 1890. | 1889. | Increase. | Decrease |
|--|------------|--|--|--|---|--|--|--|------------------------|
| Cotton, raw Cotton twist and yarn— 1.—European 2.—Indian 2.—Indian 2.—European— 2.—European— 2.—In boxes 2.—In boxes 2.—In boxes 2.—In boxes 2.—In boxes 3.—In boxes 4.—In boxes 4.—In boxes 4.—In boxes 4.—In boxes 5.—In boxes 5.—In boxes 6.—Undressed 6.—Undressed 6.—Undressed 6.—Undressed 7.—In boxes 7.—I | | 60 | s. Tons. | Tone | THE REAL PROPERTY. | | | 1000 | - 33 |
| cotton twist and yarn— 1.—European 2.—Indian | | | THE RESERVE AND LOSS OF THE PARTY OF THE PAR | TOHO. | Tons. | Tons. | Tons. | Tons, | Tons. |
| cotton twist and yarn— 1.—European 2.—Indian | | | 2 2 2 2 2 2 2 2 | 4 *** | 60 60 100 | 1,224 | 1,576 | The second | 350 |
| Cotton twist and yarn— 1.—European 2.—Indian 2.—Indian 2.—In bales and bundles 5.—In boxes 2.—Indian 2.—In bales and bundles 5.—In boxes 2.—Indian 2.—Rice 3.—In bales and bundles 5.—Others 1.—Hides of cattle— 2.—Rice 3.—Undressed 2.—Skins of sheep, &c.— 2.—Skins of sheep, &c.— 2.—Skins of sheep, &c.— 2.—Undressed 3.—Undressed 4.—Undressed 4.—Undressed 5.—Unscrewed 2.—Gunny-begs and cloth 4 stals— 1.—Copper, unwrought 3.—Brass and copper, wrought 4.—Iron 4.—Iron 4.—Iron 5.—Kerosine 3.—Others 11.—Linseed 2.—Kerosine 3.—Others 11.—Linseed 3.—Til or gingelly 4.—Niger 4.—Niger 5.—Castor 5.—Poppy 7.—Others 1.—Chers 1.—Ch | | | 3 | 1,576 | 7 | 3 | 7 | | |
| 1.—European 2.—Indian 2.—Indian 2.—In bales and bundles 5.—In boxes 2.—Indian— a.—In bales and bundles 5.—In boxes 2.—Indian— a.—In bales and bundles 5.—In boxes 3.—In boxes 4.—In boxes 6.—In boxes | | ****** | The state of the s | | 100 | SELECTION OF THE PERSON OF THE | | | 1000 |
| 2.—Indian | | . 1 | | Service Carlottal | 1 | H S S | | 1 1 | - |
| | | | | | 111111111111111111111111111111111111111 | 150 | | 1 | 1.00 |
| AFix poses | | | - C-45-11-14 | | 100000 | 100 Lan 11 | | 17-30 | A 100 |
| 2.—Indian— a.—In bales and bundles b.—In boxes 2.—Rice 5.—Others 1.—Hides of cattle— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed inter 1.—Raw— b.—Unscrewed 2.—Gunny-begs and cloth istals— 1.—Copper, unwrought 2.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ilia— 2.—Kerosine 3.—Others 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 7.—Others 7.—Others 7.—Others 8.—Others 8.—Oth | | 15 | 0 | 164 | | 152 | 164 | | 1 |
| 2.—Indian— a.—In bales and bundles b.—In boxes 2.—Rice 5.—Others ildes and skins 1.—Rides of cattle— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed ute— b.—Undressed ute— b.—Unscrewed 2.—Gunny-begs and cloth letals— 1.—Copper, unwrought 2.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ilie— 2.—Kerosine 3.—Others 1.—Linseed 2.—Repe and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 7.—Others 7.—Others 7.—Others 8.—Others 8.—Others 9.—Rete-Inute 9.—Others 9 | *** | 13.1 | 2 | THE PARTY OF | | Selection of the | | 400 | |
| Rrains— 2.—Rice 5.—Others 1.—Hides of cattle— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed 2.—Gressed b.—Undressed 2.—Gressed b.—Undressed 3.—Undressed 4.—Undressed 3.—Brass and cloth 1.—Copper, unwrought 2.—Brass, unwrought 3.—Brass and copper, wrought 4.—Iron b.—Tin 6.—Others 1.—Linseed 2.—Kerosine 3.—Others 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Nigar 5.—Castor 6.—Poppy 7.—Others 7.—Others 7.—Others 3.—Others 3.—O | No. of Lot | 1 35 500 | A PARTIE OF | SAFETY OF | The Charles of | ASSESSMENT OF THE PARTY OF THE | | Le l | 12.00 |
| Rrains— 2.—Rice 5.—Others Jides and skins— 1.—Hides of cattle— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed 2.—Gunny-begs and cloth letals— 1.—Copper, unwrought 2.—Brass, unwrought 3.—Brass and copper, wrought 4.—Iron b.—Tin 6.—Others 1.—Linsed 3.—Others 1.—Linsed 2.—Rerosine 3.—Others 1.—Linsed 3.—Til or gingelly 4.—Niger 5.—Castor 5.—Poppy 7.—Others 7.—Others 1.—Castor 5.—Poppy 7.—Others 3.—Others 4.—Ironined | *** | | | | | THILLY STOLE | | 1 S7 | 2.00 |
| 2.—Rice | *** | | | | | Shirty | | Control of the | Stathletz |
| 5.—Others Hides and skins — 1.—Hides of cattle— | STATE OF | 10 | 5 73 | 3 | 103 | 228 | 106 | 122 | ****** |
| Hides and skins— 1.—Hides of cattle— 2.—Dressed 5.—Undressed 5.—Undressed 6.—Undressed 6.—Undressed 6.—Unscrewed 2.—Skins of sheep, &c.— 2.—Skins of sheep, &c.— 2.—Briss of sheep, &c.— 2.—Unscrewed 2.—Unscrewed 2.—Gunny-bags and cloth 4.—Copper, unwrought 2.—Briss, unwrought 3.—Briss and copper, wrought 4.—Iron 5.—Tin 6.—Others 1.—Linseed 2.—Kerosine 3.—Others 1.—Linseed 3.—Til or gingelly 4.—Niger 5.—Coustor 5.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 3.—Others 3.—Others 3.—Others 4.—Niger 5.—Retel-nuts 3.—Others 3.—Others 3.—Others 3.—Others 4.—Niger 5.—Retel-nuts 3.—Others 3.—Others 4.—Niger 5.—Retel-nuts 3.—Others 1.—Drained | | ACCUMULATION OF THE PERSON | | 71 | 388 | 97 | 459 | ***** | 34 |
| 1.—Hides of cattle— | | | | Chamberly, | | MINA ATTEND | | THE PARTY | 110110 |
| 2.—Skins of sheep, &c.— | | 1,100 | Witness . | | | SECTION AND ADDRESS. | | The second | No. of the contract of |
| 2.—Skins of sheep, &c.— | *** * | The second second | | And the second | Assessment Control | STATE OF THE | | STATE OF STREET | F WITT DA |
| a.—Dressed b.—Undressed i.—Baw— b.—Unscrewed 2.—Gunny-bags and cloth detals— 1.—Copper, unwrought 2. Brass, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ils—ilseeds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 4.—Niger 4.—Niger 5.—Rape and mustard 5.—Rape and mustard 6.—Poppy 7.—Others 7.—Others 7.—Saiway plant and rolling-stock alt 1.—Drained | *** . | · | 13 | | 20 | 13 | 20 | ***** | Je811391 |
| b.—Undressed 1.—Raw— b.—Unscrewed 2.—Gunny-bags and cloth stals— 1.—Copper, unwrought 2. Brass, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ilse— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Uthers 7.—Uthers 7.—Uthers 7.—Others 3.—Others 3.—Others 3.—Others 3.—Others 3.—Others 3.—Others 3.—Others 3.—Others 4. Stalway plant and rolling-stock 5.—Stalway plant and rolling-stock 5.—Trained 1.—Drained 1.—Drained | *** | CHI CONTRACTOR STATE | 4.1 | | | | | Lastron Proces | 100 |
| | *** | CONTRACTOR STATE | - T- V- | 110000 | | TRACTURE OF | | The Carlo | THE R. |
| 6.—Unscrewed 2.—Guny-begs and cloth detals— 1.—Copper, unwrought 2.—Brass, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ils—ed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 7.—Others 7.—Others 8.—Others 8.—Ot | | 1 | | Served State of | 23.25.40 | | | | 1000 |
| 2.—Gunny-begs and cloth detals— 1.—Copper, unwrought 2. Briss, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 4.—Niger 4.—Niger 4.—Niger 5.—Rape and mustard 6.—Poppy 7.—Others 6.—Poppy 7.—Others 7.—Others 8.—Others 8.—Ot | | | 2,397 | | 5,865 | 2,397 | 5,865 | ****** | 3,4 |
| detals | | THE PARTY OF THE P | 2 2,007 | 1 | | 2 | 1 | 1 | |
| 1.—Copper, unwrought 2. Brass, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ile— 2.—Kerosine 3.—Others ilseeds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Custor 6.—Poppy 7.—Others 3.—Others 3.—Others 3.—Others 4.—Niger 5.—Custor 6.—Poppy 7.—Others 6.—Poppy 7.—Others 6.—Rotel-nuts 6.—Others 6.—Others 6.—Others 6.—Others 6.—Others 6.—Others 6.—Others 6.—Doppy 7.—Others 6.—Doppy 7.—Others 6.—Doppy 7.—Others 6.—Doppy 7.—Doppy 7.—Doppy 7.—Doppy 7.—Doppy 8.—Rotel-nuts 6.—Doppy 8.—Doppy 8 | | 3 2 3 1 3 | To the state of th | | | Water State | | BEV-11 | Will service |
| 2. Brass, unwrought 3.—Brass and copper, wrought 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ilseeds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others rovisions— 2.—Retel-nuts 3.—Others 3.—Others 3.—Others 4. Single of the standard of the | *** ** | . 1 | The state of the state of | SAMOE DOM: N | 100/21/2019 | 11,786,000 | | 199 | 10000 |
| 4.—Iron 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ilseds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 3.—Others 3.—Others 3.—Others 4. **Additional control of the standard of the stan | 1449 | | | | Maria Caraca | | 100 | The same | 1000 |
| 5.—Tin 6.—Others ils— 2.—Kerosine 3.—Others ilseeds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 7.—Others 2.—Retel-nuts 3.—Others 3.—Others 3.—Others 3.—Others 4. Saiway plant and rolling-stock alt uggr— 1.—Drained | *** | | 0 8 | 66 | 22 | 98 | 88 | 10 | ***** |
| 6. Others | | | | | | The same | | 2.15 | |
| ils— 2.—Kerosine 3.—Others iliseeds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 3.—Others ali magar— 1.—Drained | *** | 48 0 17 77 99 77 78 1 | | | A 10/92 July 1 144 | Committee of | 102.35 | 3000 | ALC: UNITED OF |
| 3.—Others bilseds— 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 3.—Others alt ugar— 1.—Drained | NEOU! | | A DESCRIPTION OF THE PERSON OF | 76 | | 142 | 76 | 66 | - |
| Dilseeds | *** ** | 1.4 | P | 83 | ***** | 147 | 83 | 64 | ****** |
| 1.—Linseed 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others alt buggr— 1.—Drained | *** | | , | AND STATE | C. Control | | | 1 3 | THOUSE IN |
| 2.—Rape and mustard 3.—Til or gingelly 4.—Niger 5.—Castor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others 3.—Others alt higgr— 1.—Drained | *** ** | 1 | | | To have the | | | | |
| 4.—Niger 5.—Custor 6.—Poppy 7.—Others 2.—Retel-nuts 3.—Others alt uggr— 1.—Drained | *** | | | | 200 002 | THE COUNTY | | | |
| 5.—Castor | 1411 11 | | 7 58 | 83 | 159 | 225 | 242 | | 1 |
| 6.—Poppy | *** ** | CARL THE SERVICE | 4 | 90 | | | (m) (m) (m) | 100 | |
| 7.—Others | | | | | | THE PARTY | | EN LINE | 1 |
| 2.— Retel-nuts | *** ** | | | | | | | The state of | |
| 3.—Others | | 100 | and . | Wilds Though | 88 | 378 | - 39 | 339 | |
| Railway plant and rolling-stock | *** | ACT IN CONTRACTOR OF CHARGE | 2 378 | 11 | 36 | 58 | 47 | 11 | ****** |
| ugar— | 1 : | TO THE OWNER. | | 10 | 20 | 11 | 30 | | 1 |
| ugar— 1.—Drained | | 98 | 3 | 220 | - Auren | 253 | 220 | 38 | |
| 1.—Drained | 0.53 | SE BALL | | | 四层层的图 | | | | Contract |
| o I md colyadi | *** | | 0 140 | 7 | 154 | 170 | 161 | 9 | |
| | *** | | SERVICE AND A PROPERTY OF THE PARTY OF THE P | 27 | 82 | 73 | 59 | 14 | ****** |
| obacco | 91 | | | S S S S S S | | 0 | C 2 () 10 3/1 | 274 | A STATE OF |
| | *** | 3 70 | 3 228 | 652 | 184 | 931 | 936 | 95 | ***** |
| | *** | | | | | | | A STATE OF THE STA | 2-11-3 |
| Tot | tal | 2,63 | 3,383 | 8,051 | 7,028 | 6.604 | 10,079 | 764 | 4,23 |
| | ** | 100 | | The state of the s | 1000 | HOLASTIN. | A STATE OF THE STA | THE STATE OF | |

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of August 1890.

| | INCREASES | Park | | | | Tons. |
|---|--|------------|------------|-------------|---|-------|
| Betel-nuts From Bengal Central Flotilla stations only. | | | | | | F 339 |
| | DECREASES. | | | | | |
| Coal Sufficiency of stock for Railway and Flotilla consum | ption. | | | | 1 | 350 |
| Jute The principal decrease was from Khoolna, and is said | STATE OF THE PARTY | ine to the | dulness of | the market. | | 3,468 |

CALCUTTA, the 11th October 1890.

FRED HENSLEY,

Examiner of Accounts and Joint Auditor.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 27th September 1890, as compared with the same period of 1889.

| | | 189 | 00. | 18 | 89. | Incre | use. | Decre | 0880. |
|--|---|----------------------|----------------------|--|---|--|----------------|--------------|----------------|
| | STAPLES. | Weight, | Freight. | Weight. | Freight. | Weight. | Freight. | Weight. | Freight |
| | The Land of the Land | Mds. | Rs. | Mds. | Rs. | Mds. | Rs. | Mds. | Rs |
| E | (Horses, ponies, and mules | No. 60 | 911 | No. 68 | 1,112 2,362 | No 6 | 798 | No. 8 | May 18 |
| SIMALS, LIVING | Cartle | 228 | 3,160 1,585 | 3,256 | 2,738 | n | | ,, 850 | 1,1 |
| | Sheep and goats | n | ****** | *** | ****** | | ****** | " 162 | |
| | | 810 | 250 117 | 972 143 | 376 118 | ***** | | 2 | |
| anes and ratans | | 141 | 8 | 1 | 1 | 3 | 7 | ****** | ***** |
| hinese and Japan | ese ware | 1 | 1 | 2 | 7 27 404 | 53,340 | 7,497 | 1 | ***** |
| oal and coke, up | | 4,96,034 | 1,34,901 3,69,646 | 4,43,594 25,24,623 | 1,27,404 3,37,983 | 1,83,208 | 31,663 | ***** | ****** |
| Ditto. dow | | 27,07,829 19,392 | 17,862 | 5,706 | 3,868 | 13,686 | 13,994 | ****** | ****** |
| otton, raw | Twist and yarn (European) | 5,167 | 6,216 | 6,080 | 7,027 7,472 | 1,519 | 1,355 | 913 | |
| OTTON, MANU- | Ditto (Indian) | 14,568 86,224 | 8,827 82,187 | 13,049 | 1,29,979 | 27,040 | ***** | 87.063 | 47,7 |
| PACTURED. | Piece-goods (European) Ditto (Indian) | 22,470 | 12,295 | 23,720 | 14,069 | ****** | ***** | 1,250 | 1,7 |
| BISING BUILDING | Asafoetida | 12 | 25 | 109 | 2,370 | ****** | ***** | 97 115 | |
| BUGS AND MR- | Other sorts, not intoxicating | 1,394 | 2,276 417 | 1,509 | 334 | 65 | 83 | | ****** |
| DICINES. | Intoxicating drugs (other than opium, i.e., arsenic, bhang, | 001 | UNION TO | | T THE SECTION OF THE | The Carlotter | | Small School | |
| | (ganja, and charas, &c.) | A Part of the | 7 700 | 3,569 | 991 | | 512 | 852 | ***** |
| | Indigo | 3,217 | 1,503 | 3,000 | | ****** | ****** | | ***** |
| YEING MATE- | Madder or manjit Safflower | 32 | 22 | 65 | 19 | | 3 | 33 | ****** |
| BIALS. | Turmeric | 11,649 | 9,852 | 7,897 | 3,962 | 3,752 398 | 5,890 244 | | ****** |
| | Other kinds | 3,524 | 4,2v8 845 | 3,126 504 | 4,054 904 | 020 | 299 | 31 | ****** |
| arthenware and | Jute, raw | 32,292 | 4,615 | 57,107 | 4,805 | 400.00 | ****** | 24,815 | |
| Marie Consultation | Do., manufactured (gunny- | 44,359 | 23,636 | \$1,379 | 15,257 | 12,980 | 8,899 | | ****** |
| BROUS PRO- | bags and cloths). | 4,997 | 1,175 | 3,523 | 1,897 | 1,474 | ****** | arroads, gar | OTHER S |
| DUCTS. | Other fibres, raw Ditto, manufactured | 3,656 | 1,818 | 1,910 | 971 | 1,746 | 847 | 20000 | |
| EPER T | Coconnuts | 9,754 | 3,509 | 10,059 | 3,977 | 9.027 | 0.700 | 305 | |
| UITS & NUTS | All other kinds | 26,679 | 17,672 78,942 | 23,622 2,12,159 | 14,873 77,852 | 64,423 | 2,799 1,090 | | ****** |
| CHECKOL I | Wheat | 2,76,579 3,12,749 | 68,153 | 2,16,909 | 77,883 | 95,84) | ****** | | 9, |
| AIN & PULSES | Gram and pulses kice, husked | 4,71,290 | 96,158 | 3,50,490 | 64,663 | 1,20,800 | 31,490 | | ****** |
| AIN & TULINA | Do., unhusked | 63,512 | 7,474 | 67,972 71,342 | 7,284 12,460 | 86,520 | 13,490 | 4,460 | ****** |
| | Other rain and spring crops | 24,781 | 25,950 44,805 | 20,991 | 31,788 | 3,790 | 13,017 | | |
| vernment stores | | 3,781 | 1.826 | 5,205 | 2,843 | 41.61 | ***** | 1,474 | 1, |
| ims and resins | Hides of cattle | 21,476 | 11,304 | 17,111 | 8,622 | 4,365 | 2,682 | | ****** |
| IDES & SKINS | Skins of sheep, goats, and | 18,018 | 5,875 | 12,824 | 5,663 | AUT | | | |
| | small animals. | 2,616 | 1,826 | 2,577 | 1,546 | 119 | 280 | ****** | ***** |
| orns | Lac, dye | 128 | 80 | 124 | 77 283 | 4,61 | 3,004 | | ****** |
| .c | Do., shell | 20,918 | 3,287 11,940 | 2,361 | 10,855 | 680 | 1,087 | | |
| | Do., stick and other kinds Leather, unmanufactured | 2,194 | 2,448 | 2,718 | 3,546 | | ****** | 524 | 1, |
| TATHER | Ditto, manufactured | 3,031 | 3,532 | 3,183 | 4,138 12,452 | ****** | ****** | 1,792 | |
| quors | | 13,2.8 | 12,146 349 | 15,050 624 | 358 | | ****** | 43 | |
| | | 64,604 | 15,558 | 97.160 | 17,915 | - | | 32,556 | 2, |
| DOTALS AND | Brass and copper | 24,066 | 14,706 | 36.075 | 29,546 58,213 | - more | HIDST. | 12,009 | 14, |
| ANUVACTUERS | Iron | 1,08,146 7,108 | 57,818 6,571 | 1,10,476 6,108 | 5,974 | 1,000 | 597 | | IUNI REMODES |
| The state of the s | Other metals | 71,285 | 24,484 | 58,182 | 32,820 | 13,103 | ****** | ****** | 8, |
| ium | | 896 | 2,133 | 3,035 | 1,064 2,278 | 313 | ***** | 1,161 | |
| ints and colours. | 101 | 27,295 | 20,746 | 27,063 | 20,684 | 232 | 62 | 4,101 | ****** |
| | Ghee | 6,313 | 4,767 | 8,867 | 5,728 | 444 | ***** | ***** | TO THE |
| SECTION OF THE PARTY OF THE PAR | Construction Account | 2,20,507 | 5,108 | 1,49,410 | 4.450 34,200 | 71,097 29,446 | 658 11,857 | ****** | ****** |
| itto aitto. | | 1,08,853 | 46,057 82,983 | 79,407 4,71,598 | 93,075 | 20,440 | 11,007 | 61,124 | 10, |
| | | 23,078 | 9,040 | 46,651 | 18,010 | 11794 | ****** | 23,578 | 8, |
| TPETER, &C. | Saltpetre Other saline substances | 13,863 | 8,956 | 11,408 | 80,393 | 2,455 24,140 | 633 2,920 | ****** | ****** |
| 100 mm - 100 mm - 100 mm | Linseed | 2,76,546 | 83,313 7,963 | 2,52,406 92,580 | 17,383 | 24,140 | | 47,650 | 9, |
| (OIL- | Mustard and rape Til or ginjelly | 1,973 | 312 | 1,893 | 232 | 80 | 80 | ****** | ****** |
| EDS | Other ollseeds | 63,014 | 20,226 | 85,404 | 23,806 | 9,540 | 3,690 | 22,390 | 3, |
| OTHER S | Indigo seed | 15,982 | 6,042 | 6,442 | 2,352 | 8,040 | 0,000 | | ***** |
| | Tea seed | 30,399 | 11,387 | 30,939 | 11,947 | ***** | ****** | 540 | |
| Section of the Control of the Contro | SHE PAW | 931 | 788 | 1,358 | 1,129 | | ***** | 427 | n e |
| x} | Do., manufactured (European) | ****** | ***** | ****** | ****** | ***** | ****** | ****** | |
| 200 | Do., ditto (Indian) | 18,819 | 7,270 | 19,071 | 7,390 | #8878% T | 4911111 | 252 | |
| ne and marble. | | 2,19,768 | 25,190 | 1,91,4/8 | 18,036 | 28,360 | 7,154 | 1 667 | ****** |
| | Sugar, refined | 90,399 | 29.0%6 10,762 | 92,066 47,314 | 22,707 8,692 | 1,830 | 6,859 2,070 | 1,667 | 10 / NOTE: 100 |
| | Do., unrefined Tea, Indian | 4,113 | 3,074 | 4,718 | 5,304 | 11011 | | 605 | 1, |
| | | ****** | Testers. | ****** | Sec. | **** | ***** | 6 800 | 6 |
| laceo | | 23,644 | 7,957 3,096 | 30,537 18,833 | 10,256 3,940 | 8,166 | ***** | 6,890 | |
| 300 | Timber | 13,349 | 607 | 7,849 | 419 | 6,000 | 188 | | ***** |
| | Firewood Wool, raw | 380 | 5118 | 576 | 578 | | ***** | 196 | 77277 H |
| PSYSS | Do., manufactured (Euro- | 1,758 | 3,733 | 1,788 | 3,763 | | | 30 | STIPE S |
| OOL | neunl | 1,335 | 1,228 | 1,983 | 2,246 | | ***** | 648 | 1 |
| 1000 | Wool, manufactured (Indian) | V 40 | ***** | nem PR | WHILLIAM TO A | William . | 100 100 | ***** | 99 110 |
| other articles o | Shawis | 1,98,915 | 1,04,952 | 1,94,071 | 1,11,208 | 4,844 | 444.004 | 40000 | 10, |
| AND THE RESERVE OF THE PARTY OF | merchandise | 25,909 97,004 | 7,002 | 11,982 85,090 | 3,807 10,938 | 11,918 2,004 | 3,695 576 | | ***** |
| | | 37,024 | 11,514 | 35,020 | 1.,003 | 2,002 | 370 | 1 | - |
| tatoes | | SAMPLE CONTRACTOR | | The second secon | | Party Charles and Control of the Party Control of t | | | 1,41 |

General remarks on the fluctuations of principal staples carried over the East Indian Railway during four weeks ended 27th September 1890.

INCREASES.

Coal and coke.—There was an increase both in the upwards and downwards traffic; that in the former was chiefly due to larger takings by the Bombay, Baroda and Central India Kaliway via Agra. The downwards increase was partly due to shipment to coast ports.

Cotton .- The increase was chiefly in despatches from Agra to Howrah and Cawnpore, for shipment and manufacture,

Cotton.—The increase was chiefly in despatches from Agra to Howrah and Cawnpore, for shipment and manufacture, respectively.

Turmeric.—Chiefly in despatches from Howrah to stations in the North-West Provinces,

Gunny bags.—The improvement in this staple was chiefly in despatches from Howrah and neighbouring stations, to Cawnpore, Delh. and the Punjab.

Rice (husked and unhusked).—The increase was due to considerable despatches of rice husked from stations on the Loop line to Howrah for shipment and to stations on the Oudh and Robilkhand Railway.

Other rain and spring crops.—Chiefly in despatches from stations on the Sahebgunge district to stations on the Dinapore district, and to the Bengal and North-Western Railway.

Government stores.—The increase was principally in ordnance stores from Howrah and Allahabad Fort to Firozepur, Rawalpindi and other stations on the North-Western Railway.

Railway material, Foreign.—Chiefly in despatches of rails and other material from Howrah to Benares Cantonment, Delhi, and Umballa.

Stone.—Principally in stone ballast from Pakur to Chitpore.

Stone .- Principally in stone ballast from Pakur to Chitpore.

Stone,—Frincipally in stone ballast from Fakur to Chiepere.

Sugar (refined and unrefined).—There was a decrease in the weight carried attended with an increase in the earnings, and this was chiefly due to long distance despatches from Howrah to stations on the North-Western Railway. There was a falling off in short lead traffic on the "B" and "C" districts.

Bones.—Chiefly in despatches from via Digha Ghàt and via Moghalsarai to Bally and Chitpore.

DECREASES.

Piece-goods, European.-The falling off in this staple was chiefly in despatches from Howrah and Bombay vid Jubbut

Gram and pulses.—There was an increase in the weight carried attended with a decrease in carnings; the former was chiefly due to short distance traffic from Loop line stations to Howcah for ship nent and local consumption; the decrease in carnings was in long distance despatches from stations on the "D" district.

Brass and copper.—Chiefly in despatches from Howrah consequent on the dull state of the import business generally.

Sall.—The falling off under this head was chiefly in despatches from Howrah owing to the dull state of the market and to carlier despatches last year in anticipation of the Durga Poojahs.

Sallpetre.—Limited demand at Howrah.

Seeds.—This is a continuation of the decrease reported last month, and was chiefly in mustard and other oil-seeds.

N. St. L. CARTER, Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 31st October 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 1,525 miles open.

| | COACHIN | G TRAVPIC. | | FFIC. | Other carnings | of Constitution | MAINE NELS | TRAIN-MIL | RS RUN. |
|--|-----------------------|---------------------------|--------------------|--------------------------|-------------------------|-----------------------------|------------|-------------------|-----------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | Total earnings. | Coaching. | Merchan- dise. | Tota. |
| | | Rs. A. P. | MDs. s. | Rs. A. P. | Rs. A. P. | Rs. A. P. | A VALUE OF | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | 245,689 | 2,90,967 0 0 190 11 9 | 19,54,912 0 | 4,59,815 12 0 301 6 9 | 16,847 5 0 11 0 8 | 7,67,630 1 0 503 3 2 | 68,739 | 74,935} | 143,671 |
| year | 8,307,238 | 33,26,688 5 0 | 2,79,95,687 10 | 62,64,556 4 6 | 2,41,629 13 8 | 98,82,874 7 2 | 937,080 | 1,148,4701 | 2,080,550 |
| Total for 16 weeks | 3,552,927 | 36,17,655 5 6 | 2,99,50,599 10 | 67,24,372 0 6 | 2,58,477 2 8 | 1,06,00,504 8 2 | 1,005,819 | 1,318,4024 | 2,224,221 |
| COMPARISON. | | | | | | die i by | to the | | |
| Total for corresponding week of previous year Permile of rail way correspond- | 240,277 | 2,96,688 13 10 | 24,07,224 30 | 5,71,436 15 8 | 16,992 15 6 | 8,85,018 19 7 | 63,539 | 89,886 | 153,425 |
| Ing week of previous year Total to corresponding date of previous year | 3,818,648 | 194 6 9 89,00,555 16 5 | 3,32,81,501 0 | 374 9 5 71,08,430 3 2 | 11 2 8 2,64,193 10 6 | 580 2 5 1,12,78,179 18 1 | 1,039,702 | 1,276,100 | 2,315,802 |

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

| RECEIPT 1971 | S FOR WHEN | ENDING 889. | | TS FOR WEEK II OCTOBER 18 | | AP | RECEIPTS PRO RIL 1889 TO 19 OCTOBER 1889. | | A | RECEIPTS PROPRIE 1890 TO 18: OCTOBER 1890. | | Total | Total |
|----------------------------|-----------------|----------------|----------------------------|------------------------------|------------------|----------------------------|---|---------------------------------------|----------------------------|---|---------------------------------------|-------------------|----------------------|
| Mean mileage worked. | Receipts. | | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per week, | Mean mileage worked, | Total receipts. | Per mile worked per week. | increase in 1890. | decrinse in 1890. |
| 1,526} | Ra. 8,85,019 | Rs. 580 | 1,525} | Re. 7,67,630 | Ra. | 1,525 | Rs. 2,32,99,931 | Rs. 527 | 1,525 | Ra. 2,17,19,435 | Rs. 491 | Rs. | Rs. 15,80,496 |

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 1,5252 miles open.

| | COACHIN | 6 TRAPPIC. | | AND MINERAL PFIC. | Other earnings | Total | TRAFFIC | TRAIN-MIL | ES RUN |
|--|-----------------------|--------------------------|--------------------|--------------------------|------------------------|---------------------------|------------|-------------------|----------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | earnings. | Coaching. | Merchan- dise. | Total |
| | | Rs. A. P. | MDs. s. | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway Per previous 16 weeks of half- | 230,653 | 2,72,271 15 0 178 7 8 | 14,84,407 20 | 4,20,567 8 0 275 11 1 | 15,856 14 0 11 0 10 | 7,09,696 5 6 465 3 7 | 67,7862 | 70,7862 | 138,54 |
| For previous 16 weeks of half- year | 3,552,927 | 86,17,655 5 0 | 2,99,50,599 0 | 67,24,372 0 6 | 2,58,477 2 8 | 1,06,00,504 8 2 | 1,005,819 | 1,218,4022 | 2,224,22 |
| Total for 17 weeks COMPARISON. | 3,783,682 | 38,89,927 4 0 | 8,14,35,006 30 | 71,44,939 8 6 | 2,75,334 0 8 | 1,18,10,200 13 2 | 1,073,6052 | | 2,362,76 |
| Total for corresponding week of previous year Per mile of railway correspond- ing week of previous year "Seal to corresponding date of | 202,862 | 2,89,989 12 0 190 1 6 | 22,03,793 20 | 5,16,644 9 4 338 10 9 | 20,466 6 4 13 6 8 | 8,27,100 l1 8 542 2 11 | 66,227 | 85,025 | 151,2 |
| Total to corresponding date of previous year | 4,021,410 | 41,99,545 11 5 | 3,54,85,294 20 | 76,25,074 12 6 | 2,84,660 0 10 | 1,21,00,280 8 9 | 1,105,929 | 1,361,125 | 2,467,0 |

FINANCIAL YEAR.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No XXI Railway, dated 23rd July 1883.

| RECEIPT 2011 | S FOR WERE H OCTOBER 1 | ENDING 889. | | THE OCTOBER 1 | ENDING 890. | | PRIL 1889 TO 26 OCTOBER 1889. | | A | L RECRIPTS FROPRIL 1889 TO 25 OCTOBER 1890. | OM 1ST | Total | |
|----------------------------|---------------------------|------------------------|----------------------------|---------------|------------------------|----------------------------|----------------------------------|---------------------------------------|----------------------------|--|---------------------------------------|----------------------|-------------------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per week. | Mean mileage worked. | | Per mile worked per week. | increase in 1890. | Total decrease in 1890. |
| | Ra. | Rs. | | Ra. | Rs. | | Rs, | Rs. | | Rs. | Rs. | Rs. | Re. |
| 1,525} | 8,27,101 | 549 | 1,025% | 7,09,696 | 465 | 1,525} | 1 2,41,27,032 | 527 | 1,525} | 2,24,29,131 | 490 . | 12 3 12 | 16,97,90 |

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 571 miles open.

| | COACHING | PRAFFIC. | MERCHANDISE TRAI | PIC. | Com a tolk high year | Total earnings. | TRAFFIC | TRAIN-MILE | s RUX. |
|--|-----------------------|--------------------|----------------------|---------------------|----------------------|-----------------------|-----------|-------------------|--------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated), | Total earnings. | Coaching. | Merchan- dise. | Total. |
| | | Re. A. 1 | MDs. s. | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | *26,991 479 | *22,051 9 385 8 | | 2,773 3 0 48 7 9 | 21 13 0 0 6 1 | 24,846 9 0 434 6 1 | 2,205 | 474 | 2,679 |
| year | 158,288 | 85,075 6 | 4,60,690 30 | 30,360 3 0 | 527 14 0 | 1,15,963 7 0 | 17,9031 | 8,162 | 26,065 |
| Total for 16 weeks | 185,279 | 1,07,126 15 | 0 4,99,957 0 | 83,133 6 0 | 549 11 0 | 1,40,810 0 0 | 20,108\$ | 8,636 | 28,744 |
| COMPARISON. | | Se priling | PASSES AND ASSESSED. | | | | | | |
| Total for corresponding week of previous year Per mile of railway correspond- | 13,2974 | 7,823 10 | 5 37,862 20 | 2,451 8 0 | 41 1 0 | 10,316 3 5 | 1,803 | 744 | 2,547 |
| ing week of previous year Total to corresponding date of | 2324 | 136 12 | 662 0 | 42 13 9 | 0 11 6 | 180 5 8 | | | ****** |
| pravious year | 220,7374 | 1,24,034 8 | 7,54,878 20 | 35,773 1 0 | 671 15 6 | 1,60,479 9 1 | 23,177 | 11,664 | 34,841 |

^{*} The increase in coaching traffic is on account of pilgrims returning from Gya.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, duted 23rd July 1883.

| RECEIPT 19TE | e FOR WEEK | | | TS FOR WEEK H OCTOBER 18 | | A | LEBORIPTS PROPRIL 1889 TO 19 OCTOBER 1889. | | Тота | L RECEIPTS FRO PRIL 1890 TO 18 OCTOBER 1890. | TH | Total | Total |
|----------------------------|---------------|-----------------|---------------------------|-----------------------------|------------------------|------|---|------------|----------------------------|--|---------------------------------------|-------------------|--------------|
| Mean mileage worked. | Receipts. | Per mile worked | Mean nil-age worked | Receipts. | Per mile worked. | | Total receipts. | | Mean mileage worked. | | Per mile worked per week. | increase in 1899. | decrease in |
| 57] | Rs. 10,316 | Rs. 180 | 571 | Rs. 24,847 | Rs. 434 | .571 | Rs. 2,74,475 | Rs. 165 | 573 | Rs. 2,67,555 | Rs. 161 | Rs | R4- 6,020 |

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 57; miles open.

| Transmit Herman | Содсити | G TRAPPIC. | MERCHANDISE . | | Other earnings | | 1 / 4 / O / T / S / S / S / S / S / S / S / S / S | TRAIN-MIL | RS RUN. |
|--|--------------------------|---|---------------------------------|-----------------------------------|------------------------------|---------------------------------------|---|-------------------|---------|
| The state of the s | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | Total earnings. | Coaching | Merchan- dise. | Total. |
| | | Rs. A. P. | MDS. S. | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | E. |
| fotal traffic for the week Or per mile of railway | 18,313 233 185,279 | 11,666 2 0 203 15 3 1,07,126 15 0 | 29,792 3 521 0 4,99,937 0 | 2,207 4 0 38 9 5 33,133 6 0 | 28 12 0 0 8 0 549 11 0 | 13,902 2 0 243 0 8 1,40,810 0 0 | 1,924 | 470 8,636 | 2,394 |
| Total for 17 weeks COMPARISON. | 198,592 | 1,18,793 1 0 | 5,29,749 30 | 35,340 10 0 | 578 7 0 | 1,54,712 2 0 | 23,0324 | 9,106 | 31,138 |
| Total for corresponding week of previous year | 12,531½ 219 | 7,531 10 1 131 10 9 | 26,012 0 454 30 | 1,976 9 0 34 8 10 | 27 5 0 0 7 8 | 9,535 8 1 166 11 3 | 1,745 | 649 | 2,394 |
| Total to corresponding date of previous year | 233,265 | 1,31,566 2 8 | 7,80,888 80 | 37,749 10 0 | 699 4 6 | 1,70,015 1 2 | 24,922 | 12,313 | 37,285 |

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI Railway, dated 23rd July 1883.

| | rs por week h October | | | rs FOR WEEK H OCTOBER 1 | | ΔP | L RECEIPTS PRO RIL 1889 TO 267 OCTOBER 1889. | | | DESCRIPTS FROM PRIL 1890 TO 25 OCTOBER 1890. | TH | Total | Total |
|----------------------------|--------------------------|-----|----------------------------|----------------------------|-----|----------------------------|--|---------------------------------------|----------------------------|--|---------------------------------------|----------------------|-------------|
| Mean mileage worked. | Receipts. | | Mean mileage worked, | Receipts. | | Mean mileage worked, | Total receipts. | Per mile worked per week, | Mean mileage worked. | | Per mile worked per week, | increase in 1890. | decrease it |
| | Ra. | Rs. | | Ra. | Rs. | | Rs. | Rs. | | Ra, | Rs. | Rs. | Re. |
| 17) ₂ | 9,536 | 167 | 571 | 13,902 | 243 | 571 | 2,84,011 + | 166 | 571 | 2,81,457 | 164 | | 2,554 |

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 221 miles open.

| | COACHING | TRAPPIC. | MERCHANDISE TRAF | | Other earnings | Total | TRAPPIC | TRAIN-MIL | es run. |
|--|-----------------------|----------------------|---------------------|-------------------|----------------|-----------------------|-----------|-------------------|---------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | earnings. | Coaching. | Merchan- dise. | Total. |
| AND THE SHALL | 9 1 903 | Rs. A. P. | MDs. s. | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | 14,382 | 8,570 3 0 160 7 4 | 8,535 0 | 321 7 0 14 7 1 | 6 0 0 | 3,897 10 0 175 2 9 | 924 | 44 | 968 |
| Joar | 242,245 | 58,718 3 0 | 75,771 10 | 3,141 4 0 | 74 10 0 | 61,934 1 0 | 13,541 | 693 | 14,234 |
| Total for 16 weeks | 256,627 | 62,288 6 0 | 84,306 10 | 8,462 11 0 | 80 10 0 | 65,881 11 0 | 14,465 | 787 | 15,202 |
| COMPARISON. | | | 0 4 000 | Twenty. | | | to a city | The Alleys and | 100 |
| Total for corresponding week of previous year Per mile of railway correspond- | 16,6854 | 4,178 9 9 | 23,814 10 | 415 8 0 | 6 3 0 | 4,600 4 9 | 918 | 83 | 906 |
| Total to corresponding date of | | 187 12 10 | | 18 10 10 | 0 4 5 | 206 12 1 | | | |
| previous year " | 284,911 | 68,947 2 0 | 1,15,500 0 | 3,385 5 0 | 83 12 9 | 72,416 3 9 | 14,774 | 856 | 15,630 |

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 23rd July 1883.

| LECEIPTS 19TI | FOR WEEK | ENDING- | RECEIP 18T | TS FOR WEEK H OCTOBER 1 | | TOTAL A | RECEIPTS FRO PRIL 1889 TO 19 OCTOBER 1889 | TH | Δ | RECEIPTS FRO PRIL 1890 TO 18 OCTOBER 1890. | | Total | Total |
|---------------------------|-----------|---------|----------------------------|----------------------------|------------------|----------------------------|---|-----|----------------------------|--|---------------------------|----------------------|----------------------|
| Mean mienge worked. | Receipts. | | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked, | Total receipts. | | Mean mileage worked, | Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Rs. | Rs. | | Rs. | f Ra. | | Rs. | Rs. | | Rs. | Rs. | Rs. | Rs. |
| 257 | 4,600 | 207 | 221 | 3,898 | 176 | 221 | 1,55,053 | 240 | 251 | 1,50,680 | 234 | | 4,378 |

TARKESSUR BRANCH RAILWAY.

Approximate Resurn of Traffic for week ended 25th October 1890, on 221 miles open.

| Average Allega | COACHING | TRAFFIC. | MERCHANDISE . TRAF | | Other earnings | Total earnings. | TRAPPIC | TRAIN-MILI | se RUN. |
|--|-----------------------|----------------------|-----------------------|--------------------|----------------|-----------------------|-----------|-------------------|---------|
| line of Ann. 18 of the | Number of passengers. | Coaching receipts. | Weight carried. | Receipts. | (estimated). | Total carmings. | Coaching. | Merchan- dise, | Total. |
| | | Rs. A. P. | MD8. 8. | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway For previous 16 weeks of half- | 15,420 | 3,810 0 0 171 3 9 | 7,986 10 | 292 14 0 13 2 7 | 7 8 0 0 5 5 | 4,110 6 0 184 11 9 | 898 | 48 | 946 |
| year | 256,627 | 62,288 6 0 | 84,306 10 | 3,462 11 0 | 80 10 0 | 65,831 11 0 | 14,465 | 787 | 15,209 |
| Total for 17 weeks | 272,047 | 66,098 6 0 | 92,292 20 | 8,755 9 0 | 88 2 0 | . 69,942 1 0 | 15,363 | 785 | 16,148 |
| COMPARISON. | | | | | | | | | |
| Total for corresponding week of previous year Per mile of railway correspond- | 18,333 | 3,222 3 2 | 26,143 30 | 416 13 0 | 12 10 0 | 3,651 10 2 | 903 | 250 | 1,165 |
| ing week of previous year Total to corresponding date of | | 144 13 1 | ***** | 18 11 9 | 0 9 7 | 164 I 11 | | | **** |
| previous year | 298,244 | 72,169 5 2 | 141,643 30 | 3,802 2 0 | 96 6 9 | 76,067 13 11 | 15,677 | 1,115 | 16,792 |

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No XXIRailway, dated 23rd July 1883

| | rs por where H October 1 | | RECEIP 257 | TS POR WERS | | AT | L RECEIPTS FROM PRIL 1889 TO 26 OCTOBER 1889. | TH | | L RECRIPTS FR. PRIL 1890 TO 21 OCTOBER 1890. | ихн | Total | Total |
|----------------------------|-----------------------------|------------------|----------------------------|--------------|---------|----------------------------|---|------------|----------------------------|--|--------------------------------------|----------------------|----------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | | Mean mil-age worked. | Total receipts. | | Mean mileage worked. | Total receipts. | Per mile worked per week | increase in 1890. | decrease in 1899. |
| 221 | Rs. 3,652 | Rs. 164 | 221 | Rs. 4,110 | Rs. 185 | 221 | Rs. | Rs. 238 | 221 | Rs. 1,54,790 | Rs. 232 | Rs. | Ra. 3,915 |

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 11th October 1890, on 763 miles open.

| | COACHIN | G TRAPP | ic. | MERCHAN | | RAND MIN | BRAI | Other er | ated) | | al | TRAPPIO | TRAIN-MILI | 88 RUN. |
|---|-----------------------------|---------------------------|-------|------------------------------|----|------------------------------|------|--------------------------|-------|-----------|------|-----------|------------------------|---------|
| | Number of passengers. | Coach | | Weight carried. | | Receip | ots. | steam- | | евти | ngs. | Coaching. | Merchan- dise. | Total, |
| | | Rs. | A. P. | MDS. | 8. | Rs. | A. P | Rs. | A. P | ics. | A. P | | | |
| Total traffic for the week Or per mile of railway For previous 14 weeks of half- year | 151,066 198 1,915,862 | 75,940 100 7,81,209 | 0 0 | 7,31,104 958 78,93,393 | 0 | 1,93,080 253 19,60,205 | 0 0 | 17,000 †3 2,08,472 | 0 (| 356 | 0 (| | 36,350 458,788 | 755,700 |
| Total for 15 weeks COMPARISON. | 2,066,928 | 8,57,149 | 0 0 | 86,24,497 | 0 | 21,53,285 | 0 0 | 2,28,472 | 0 (| 32,33,906 | 0 (| 821,845 | 490,108 | 811,953 |
| Total for corresponding week of previous year | 131,433 176 2,090,072 | 59,996 80 8,95,982 | 0 0 | 6,63,909 889 95,29,166 | 83 | 1,54,424 207 22,72,247 | 0 0 | 14,193 †2 2,33,601 | 0 0 | 289 | 0 0 | - | \$1,508 469,620 | 54,04 |

^{*} Audited up to week ending 30th August 1800. † Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

| RECEIP 12T | TS FOR WEEK H OCTOBER 1 | ENDING | Висигрт 11тн | S FOR WEEK OCTOBER 18 | ENDING 90, | Λ | L RECEIPTS FRO PRIL 1889 TO 13 OCTOBER 1889. | | A1 | RECEIPTS PROPRIE 1890 TO 11 OCTOBER 1890. | M 18T | Total | Total |
|----------------------------|----------------------------|------------------------|----------------------------|--------------------------|---------------|----------------------------|--|---------------------------------------|------------------|---|---------------------------------------|----------------------|------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | | Mesn mileage worked. | Total receipts. | Per mile worked per week. | Mean mileage. | Total receipts. | Per mile worked per week. | increase in 1590. | decrease a |
| 747 | Rs. 2,28,613 | Rs. 306 | 763 | Rs. 2,85,020 | Re. 75 | 13 | Rs. 55,37,222 | Rs. | 759 | Rs. *56,16,564 | Rs. 264 | Rs. 79,342 | Rs. |

^{*} Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 125 miles open.

| | COACHIN | g Trappi | c. | 2 | MERCHANI | | AND MIN | EX | AL | Other er | | | | | | TRAFFIC | TRAIN-MILE | S RUN. |
|---|-----------------------|----------|------|----|--------------------|----|-------------|-----|----|----------|-----|------------|---------------|----|----|-----------|-------------------|--------|
| | Number of passengers. | Coach | | | Weight carried, | | Receip | ts. | | festim | ted | ngs i). | Tota | | | Coaching. | Merchan- dise. | Total. |
| | | Rs. | A. : | P. | MDS. | 8. | Rs. | ۸. | P. | Rs. | | P. | Rs. | A. | P. | | | |
| retal traffic for the week | 27,930 223 | 9,680 | 0 | 0 | 69,800 558 | | 6,520 52 | 0 | 0 | 70 | 0 | 0 | 16,270 130 | 0 | | 3,668 | 2,000 | 5,66 |
| or per mile of railway for previous 14 weeks of half- | 849,729 | 1,06,709 | 0 | 0 | 5,28,231 | 0 | 41,747 | 0 | 0 | 2,468 | 0 | 0 | *1,50,924 | 0 | 0 | 40,643 | 28,892 | 78,53 |
| Total for 15 weeks | 377,659 | 1,16,389 | 0 | 0 | 5,98,031 | 0 | 48,267 | 0 | 0 | 2,538 | 0 | 0 | 1,67,194 | 0 | 0 | 53,311 | 30,892 | 84,200 |
| COMPARISON. | | | | | | | | | | | | | | | | | | |
| total for corresponding week of | 23,849 | 8,508 | 0 | 0 | 89,114 | 0 | 9,717 | 0 | 0 | 62 | 0 | 0 | 18,287 | 0 | 0 | 3,776 | 2,832 | 6,60 |
| er mile of ranway correspond | | 68 | 0 | 0 | 713 | 0 | 78 | 0 | 0 | | | | 146 | 0 | 0 | ***** | | ***** |
| otal to corresponding date of | 413,459 | 1,86,918 | 0 | 0 | 9,97,901 | 0 | 96,111 | 0 | 0 | 2,713 | 0 | 0 | 2,35,742 | 0 | 0 | 52,734 | 38,778 | 91,51 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

| Per mile worked. | Mean mileage | Receipts. | Per mile | Mean | Total receipts. | Per mile | Mean | | Per mile | increase in 1890. | decrease in 1890, |
|------------------------|-----------------|-----------|----------|---------|-----------------|------------------------|--------------------|-----------------|------------------------|----------------------|----------------------|
| 175.53 | WOLKOU. | | worked. | worked. | TA DATE OF | worked per week. | mileage worked. | Total receipts. | worked per week. | | |
| Ra. | | Rs. | Rs. | 101 | Rs. | Rs. | | Re. | Rs. | Rs. | Rs. 82,887 |
| | Rs. 146 | | | | | | | | | | |

^{*} Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 86 miles open.

| | COACHING | TRAFFI | o | MERCHAND | | AND MINE | BAL | Other ears | ings | Tota | 1 | TRAFFIC | TRAIN-MIL | S RUN. |
|---|-----------------------|-------------|------------|--------------------|----|-------------|------|------------|------|--------------|-------|-----------|------------------------|-------------|
| | Number of passengers. | Conchi | | Weight carried. | | Receipt | | (estimate | d). | earnin | g8. | Coaching. | Merchan- dise, | Total. |
| Seek Table 12 Tel Co. | | Rs. | A. P. | MDs. | 8, | Re. | . P. | Rs. | . р. | Rs. | A. P. | | Control of the Control | TOTAL TARRE |
| or per mile of railway | 18,920 220 | 5,830 68 | 0 0 0 0 | 29,520 843 | 0 | 2,630 31 | 0 0 | 120 | 0 0 | 8,580 100 | 0 0 | 2,410 | 710 | 3,12 |
| for previous 14 weeks of half- | 208,193 | 65,699 | 0 0 | 1,93,286 | 0 | 16,409 | 0 0 | 4,076 | 0 0 | *86,184 | 0 0 | 38,141 | 9,971 | 43,112 |
| Total for 15 weeks | 227,113 | 71,529 | 0 0 | 2,22,756 | 0 | 19,039 | 0 0 | 4,196 | 0 0 | 94,764 | 0 0 | 35,551 | 10,681 | 46,23: |
| COMPARISON. | | | | 100 | | | | Liver I | | | | | | |
| lotal for corresponding week of previous year for mile of railway corresponding | 12,403 | 4,201 | 0 0 | 39,640 | 0 | 3,224 | 0 0 | 79 | 0 0 | 7,504 | 0 0 | 2,516 | 720 | 3,23 |
| period of previous year | 166 | 49 | 0 0 | 461 | 0 | 37 | 0 0 | 1 | 0 0 | 87 | 0 0 | ***** | | |
| previous year | 219,087 | 68,647 | 0 0 | 3,30,562 | 0 | 24,333 | 0 0 | 3,248 | 0 0 | 96,228 | 0 0 | 87,405 | 13,498 | 50, 1 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

| | | | | OCTOBER 1890. | | TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH OCTOBER 1889. | | | TOTAL RECEIPTS FROM 18T APRIL 1890 TO 11TH OCTOBER 1890. | | | Total | Total |
|----------------------------|-----------|-----|----------------------------|---------------|-----|--|-----------------|-----|--|-----------------|---------------------------------------|----------------------|----------------------|
| Mean nileage torked. | Receipts. | | Mean mileage worked, | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked. | Total receipts. | Per mile worked per week, | increase in 1890. | decrease in 1890. |
| | Re. | Rs. | | Ra. | Rs. | | Ra. | Rs. | | Ra. | Rs. | Rs. | Rs. |
| * | 7,504 | 87 | 86 | 3,580 | 100 | 86 | 1,70,507 | 71 | 86 | *1,78,625 | 78 | 6,118 | |

^{*} Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 271 miles open.

| | COACHING | COACHING TRAFFIC. MRR | | MERCHANDISE AND MINERAL TRAFFIC. | | | Other ea | Other earnings | | Total | | 100 | TRAPPIC TRAIN-MILES RUN. | | | | |
|---|-----------------------|-----------------------|------|----------------------------------|-----------------|-----|-----------|----------------|--------------|-------|-----------|--------------|--------------------------|-------------------|--------|-------|-------|
| | Number of passengers. | Coaching receipts. | | W | Weight carried. | | Receipts. | | (estimated). | | earnings. | | Coaching. | Merchan- dise. | Total. | | |
| | 0-1 | Rs. | A. P | | Mps. | ñ. | Rs. | A. P. | Rs. | A. | P. | Rs. | ۸. | P. | | | |
| Total traffic for the week Or per mile of railway | 2,980 109 | 1,070 39 | 0 0 | | 18,110 665 | | 950 35 | 0 0 | 20 | 0 | 0 | 2,040 75 | | | 580 | 170 | 76 |
| For previous 14 weeks of hulf- year | 39,937 | 13,956 | 0 0 | | 1,32,408 | 0 | 7,264 | 0 0 | 200 | 0 | 0 | *21,429 | 0 | 0 | 7,592 | 5,214 | 12,80 |
| Total for 15 weeks COMPARISON. | 42,917 | 15,026 | 0 0 | | 1,50,518 | 0 | 8,214 | 0 0 | 229 | 0 | 0 | 23,469 | 0 | 0 | 8,172 | 5,384 | 13,50 |
| Total for corresponding week of previous year | 2,815 | 1,045 | | 139 | 10,022 | - 1 | | 0 0 | 115759 | 0 | 18 | 1,658 | H | | 286 | 231 | 8) |
| ing period of previous year Total to corresponding date of previous year | 103 | 38 16,473 | 0 0 | 123 | 368 1,37,488 | 0 | 9,028 | 0 0 | 1,295 | 0 | 0 | 61 26,798 | | 7E. | 8,640 | 5,472 | 14,11 |

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway,

| | TS FOR WEEK H OCTOBER 18 | | | rs FOR WEEK | | | APRIL 1889 TO 12TH OCTOBER 1889. | | | RECRIPTS PRO PRIL 1890 TO 1 OCTOBER 1890. | Total | Total | |
|----------------------------|-----------------------------|------------------------|----------------------------|--------------|------------------|----------------------------|-------------------------------------|---------------------------------------|----------------------------|---|---------------------------------------|----------------------|----------------------|
| Mean mileage worked. | Receipts, | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per week. | Mean mileage worked. | | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| 271 | Řs 1,668 | Rs. 61 | 271 | Rs. 2,040 | Rs. 75 | 271 | Ra. 52,375 | Rs. 69 | 271 | Rs. *49,481 | Rs. 65 | Rs | Rs. 2,894 |

[•] Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 18th October 1890, on 601 miles open.

| | COACHING TRAPPIC. | | | AND MINERAL PRIC. | Other earnings (estimated), | Total | TRAPPIC | TRAIN-MII | RS RUN. |
|---|-----------------------|--------------------|--------------------|-------------------|--------------------------------|-----------------|-----------|-------------------|---------|
| | Number of passengers. | Coaching receipts. | Weight carried. | Receipts. | steam-boat earnings. | earnings. | Coaching. | Merchan- dise. | Total, |
| 7 (A) (A) (A) (A) (A) | | Rs. | MD8. | Rs. | Rs, | Rs. | Marie S | | |
| Potal traffic for the week (on 691 miles open) | 71,380 103:30 | 26,050 37:70 | 2,45,830 355.76 | 30,070 43:61 | 6,340 9°18 | 62,460 90:39 | 13,995 | 10,813 | 24,808 |
| year | 1,081,270 | 4,18,259 | 35,90,524 | 4,41,780 | 94,497 | 9,54,536 | 176,605 | 166,352 | 342,957 |
| Total for 15 Weeks | 1,152,650 | 4,44,309 | 39,36,354 | 4,71,850 | *1,00,837 | 10,16,996 | 190,600 | 177,165 | 367,768 |
| Audited figures. Fotal for corresponding week of | A PARTY | e reminero | Mark ASS | | | | | | |
| previous year | 71,777 | 26,893 | 2,86,619 | 25,481 | 5,513 | 57,887 | 9,989 | 11,751 | 21,740 |
| open | 110:60 | 41'44 | 411 63 | 39:26 | 8'40 | 89.19 | | | ****** |
| previous year | 1,140,998 | 4,21,402 | 41,30,509 | 4,77,444 | 1,23,865 | 10,22,711 | 176,399 | 200.944 | 377,543 |

^{*} Steam-boat earnings for the week, Rs. 4,920.

Ditto ditto to date, ,, 76,410.

* Ajodhya bridge earnings for the week, Rs. 100.

Ditto ditto to date ,, 3,610.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

| | TS FOR WEEK | | | B POR WEEK | | TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 18TH OCTOBER 1890. | | | W 1957 | L RECEIPTS PRO APRIL 1889 TO TH OCTOBER 18 | Total | Total | |
|----------------------------|-------------|-----------------------|----------------------------|------------|-------|--|-----------------|--------|----------------------------|--|---------------------------------------|-------------------------|----------------------|
| Mean mileage worked, | Receipts. | Per mile worked | Mean mileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked, | | Per mile worked per week, | tucrease in 1890-91. | decrease 1890-91. |
| | Rs. | Rs. | | Re. | Ra. | | Rs. | Rs. | | Rs. | Re. | Rs. | Rs. |
| 691 | 62,460 | 90.39 | 649 | 67,887 | 89:19 | 672 | 23,40,676 | 124'86 | 649 | 23,38,364 | 121.31 | 2,312 | |

Other earnings

28,160

26,450

34,300

31,437

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The Calcutta Gazette.

WEDNESDAY, NOVEMBER 12, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE ADMINISTRATION REPORT OF THE CALCUTTA MUNICIPAL CORPORATION FOR THE YEAR 1889-90.

MUNICIPAL DEPARTMENT—MUNICIPAL.

Dirjecting, the 4th November 1890.

RESOLUTION.

READ-

This is the first report submitted by the Commissioners of the Town of Calcutta on the working of the Municipality under the Calcutta Municipal Consolidation Act II of 1888. As the area of the Town now comprises the amalgamated area of the Suburbs, the general statistics given are not comparable with those of previous years, and it is probably due to this cause, as well as to the fact that a new Chairman has been appointed after the close of the year, that the present report is in some respects less complete than others which have lately been submitted by the Commissioners. The Lieutenant-Governor observes that on previous occasions it has been usual for the Commissioners to summarise the reports they receive from their Health Officer and Engineer, and to describe in more or less fletail in separate chapters the work done during the year in these departments. In the present year these important chapters have been omitted, while the subjects to which they refer have only received very

cursory treatment in an introductory chapter, and it is necessary to examine the departmental reports in order to obtain any adequate appreciation of the work really done by the Municipality. The object of an administration report is, however, to lay before the public and Government a self-contained account of the work done during the year, and the Lieutenant-Governor would therefore be glad if in future reports the Commissioners would revert to their former practice and arrange to furnish fuller information under the heads of Sanitation and Engineering. At the same time it might be possible to curtail some of the other sections of the report, and so not increase the dimensions of a volume which is already sufficiently bulky. The Lieutenant-Governor desires also to express a hope that in future it may be found possible to submit this report with greater punctuality. It is due to Government on the 1st August, but the present report was not received until the 17th of October.

2. As might have been expected during the first year of the amalgamation, the duties which devolved on the Commissioners were exceptionally onerous. There were 34 general meetings against 14 in the previous year; 125 meetings of standing Committees against 56; 66 of special Committees against 28; and 57 of Sub-Committees against 33. Altogether the total number of meetings was 282 against 131. There were no less than 26 members who attended 50 meetings or more during the year, and seven members (of whom three were nominated and four elected) who attended over 100 meetings. The Lieutenant-Governor considers that these results, showing how largely the Commissioners devote their time and trouble without remuneration to municipal duties, afford the most satisfactory evidence of the growth of public spirit in the metropolis. The account given of the principal subjects under discussion at these meetings indicates the importance and variety of municipal interests under consideration. Among other items may be mentioned the new Central Road, the question of burning the town refuse, the extension of water-supply and drainage to the Suburbs, the question of legislation for lepers, the protection of wild birds, the maintenance of a public library, the preparation of bye-laws, and the reorganization of establishments in the amalgamated area.

. The loan liability of the Corporation at the close of the year stood as follows:—

| | 100 | | | and the second | 1 | Rs. |
|-------|------------------|-----------|-----------------------------|----------------|---|--------------------------|
| 6 per | cent. debentures | 144 | implimed and an analysis | | | 4,17,500 |
| 5 | ditto | | *** | | | 1,12,92,400 |
| 41 | ditto | | ••• | ••• | | 10,48,300 |
| | Co | nsolidate | d loans from | Government | | 1,27,58,200 60,11,610 |
| | | | | | | 1,87,69,810 |

Two new 5 per cent. loans were raised during the year; one for 5 lakhs in June 1889 for water-supply, for which tenders amounting to Rs. 39,26,000 were received, and which was placed at an average premium of Rs. 5-14-6; and the other for 14 lakhs, which was incurred for both water-supply and drainage and the repayment of 6 per cent. debentures. The larger loan was raised in September, and the whole of it was taken up at rates varying from Rs. 3 to Rs. 5-12 premium. These results are satisfactory. The total borrowing power of the Commissioners is fixed by section 410 of the Act at such an amount as that the sum payable thereon annually by way of interest and as instalments due to the reserve funds shall not be more than 10 per cent. on the annual valuation of Calcutta. The amount of this valuation during the past year was Rs. 1,73,70,515, and at the present time, therefore, the Commissioners are legally competent to raise a loan liability on 5 per cent. debentures amounting to Rs. 3,46,00,000.

4. The actual income of the Municipality luring the year was

Rs. 42,17,121, and the actual disbursements

amounted to Rs. 41,27,831. The principal items
of receipts and charges are as follows:—

| RECEIPTS. Rs. | EXPENDITURE. Rs. |
|---|--------------------------------|
| General rate at 9 per cent. 17,34,809 | Interest on general loans |
| Sewage rate, &c., at 2 per | including dra nage 4,25,237 |
| cent 3,10,034 | Contribution for repayment |
| Water rate at 6 and 3 per | of general loans 1,72,933 |
| eent 9,11,028 | General establishment 3,85,080 |
| Lighting rate at 2 per cent. 3,02,259 | Road department 4,14,289 |
| Taxes 4,95,821 | Gowkhana 1,69,221 |
| Municipal Market 1,20,477 | Conservancy 3,40,621 |
| | Sewage rate charges 2,76,799 |
| | Water rate charges, includ- |
| | ing interest on loans, Rs. |
| 地位是15.20 用加工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工 | 4,29,916, and contribution |
| | for repayment of loans, |
| | Rs. 1,70,917 9,33,930 |
| | Lighting, &c 3,17,860 |

The total rates now realized amount to 19½ per cent. on the annual valuation of assessable property, against a maximum of 23 per cent. allowed under the law, and the total incidence of taxation of all sorts is at the rate of Rs. 6-8-1 per head of the population according to the census of 1881.

Rs. 6-8-1 per head of the population according to the census of 1881.

5. The Lieutenant-Governor observes that the receipts from rates fell considerably short of the budget estimate, the total receipts under the four rates being Rs. 31,78,704

receipts under the four rates being Rs. 31,78,704 as against the estimate of Rs. 33,47,000, a total deficit of Rs. 1,68,296. The only explanation which the Commissioners give of this unusual discrepancy is under the head of the general fund (paragraph 83), where it is ascribed to short bustee collections and disputed assessments. It is evident, on analysing the collections, that it is in fact due to a large increase in the outstanding balances. The usual statement, bringing together all the balances of the different departments, has been omitted from the present report; but if the items are picked out from paragraphs 97 to 109 the result is found to be as follows:—

| | Outstanding balar | nces of rate bills. |
|---|----------------------------|--|
| ver ever to pure but the hopeon's | End of 1888-89. Rs. | End of 1889-90. Rs. |
| In the hands of Assessor Ditto of Collector Ditto of Joint Collector Ditto of Warrant Superintendent | 58,173 26,014 93,841 | 67,489 80,645 42,209 1,51,933 |
| | 1,78,028 | 3,42,276 1,78,028 |
| Excess of 1889-90 over 1888-89 | er kontrol (| 1,64,248 |

It will thus be seen that the excess of outstandings corresponds very closely with the deficit in the collections, showing that the estimate was approximately correct.

- 6. The increase in the arrears is very briefly explained by the Collector in paragraph 100, and somewhat more fully by the Joint-Collector for the Suburbs in paragraph 103. It appears that it is attributable to the inevitable temporary derangement of the collecting machinery due to the addition of a large suburban area, and also to changes in the system of rating introduced by the new Act. The difficulties under which the Collectors laboured may be thus summarised:—
- (1) The collections of five quarters of the house rate within the year —This rate used to be collected during the succeeding quarter, while the whole of the consolidated rate in which it has been merged under the new Act is collected during the currency of the quarter for which it is due. The result was that the bill department had to get through the work of five quarters in a year, and necessarily fell much into arrears at its commencement, while more persons than usual postponed payment of their dues owing to the double demand for the first quarter.
- (2) The recovery of roles for bustees from the landlords.—This measure, as might be expected, met with much opposition from the landlords, who have

petitioned the Lieutenant-Governor, and are now petitioning the Governor-General in Council, to revert to the former system of collecting the bulk of the rates direct from the hut-owners. Under any circumstances, the collections of this portion of the rates during the first year of the operation of the new Act must have fallen very short of the demand, but the difficulty was enhanced by the impossibility of making out correct bustee bills in many cases till after the annual valuation required by the Act. Apart from his ordinary work of revaluation, the Assessor was overwhelmed with objections from bustee owners, especially in the added area, where he had no trustworthy materials to refer to until the bustees had been revalued; and looking to the difficulties with which he had to contend, it seems to the Lieutenant-Governor to be highly creditable to this officer that he should have so far surmounted them at the close of the year that the arrears in his hands of all sorts were only Rs. 67,489 against Rs. 58,173 at the beginning of the year.

In the statement showing the working of the Collector's Department the collections on account of bustees are not separated from those of the landlords' share of the consolidated rate, and the report of the Commissioners therefore does not show clearly the extent to which the bustee collections fell short of the demand; but the Lieutenant-Governor gathers from the statistics which are given that the total demand for bustees was Rs 5,03,337, and that the arrears at the close of the year, excluding those for which the Collector is responsible, were—

| | | | | | The second | | Rs. |
|----|-----------|----|---------------------|------------|--------------------|-----|----------------------|
| In | the hands | of | the Assessor | | | | 3,464 |
| | Ditto | of | the Joint Collector | The series | | | 14,843 |
| | Ditto | of | the Warrant Superin | ntendent | | | 51,962 |
| | | | | 1000000 | | | |
| | | | | | | No. | 70,269 |
| | | | | | THE REST OF STREET | | THE RESERVE TO SERVE |

* The total arrears in the hands of the Collector under the joint head of landlords' share of the consolidated rate and bustee bills were Rs. 60,102, while the arrears of the occupiers' share were Rs. 20,543; and if this latter figure can be taken as the measure of the similar arrears due from owners, it leaves Rs. 39,559 as the share of the bustee owners, in the hands of the Collector, thus raising the total arrears from all departments to Rs. 1,09,828. By the same process. viz., actual figures taken from the reports of the Assessor, Joint-Collector and Warrant Superintendent, and probable figures from the Collector's report, it appears that the amount remitted or cancelled was Rs. 20,979. It would seem, therefore, that the collections were approximately Rs. 3,72,590 out of the demand of Rs. 5,03,337, or 74 per cent. Considering the exceptional difficulties which beset the collection of these bills during the first year, this result is fairly satisfactory. The Lieutenant-Governor hopes that next year the Commissioners will furnish the statistics regarding these bills separately, and that they will show that good progress has been made in recovering the arrears. It is presumed that after a proper valuation has been made under the new Act of all the bustees in the old and added areas, the difficulties which are now experienced will disappear.

(3) The increase in rates in the added area.—Before the amalgamation the rate-payers in this area paid $7\frac{1}{2}$ per cent. plus house service fees which varied with the valuation, but averaged about $4\frac{1}{2}$ per cent. Under the new Act the rates were raised to 19 or 16 per cent., according as the water-rate was 6 or 3 per cent. So large an increase must obviously have augmented the reluctance of the rate-payers to pay with punctuality.

(4) The unprecedented amount of work thrown upon the Assessor's department during the year of transicion.—This is another difficulty which, with the completed valuation of the bustees, may be expected to entirely disappear.

(5) The new assessment section which has led to a general in rease in the rating of residential houses.—This has naturally been followed by an unusual number of objections, the decision of which throws much work on the Assessor's department, while the ratepayer refuses payment till hij objection and appeal, if he appeals to the Small Cause Court, have been decided. This difficulty will only cease when the entire city has been revalued under the Act, and all objections and appeals have been disposed of.

It is thus evident that the collection of rate bills was rendered exceptionally difficult during the past year, and, under the circumstances, the increase in the outstandings does not appear to be larger than might have been reasonably expected; but of the five causes enumerated, only the 3rd and 5th will continue to operate during the present year, and their effect will be comparatively small. The Lieutenant-Governor trusts, therefore, that the year 1890-91 will close with the outstanding balance of the rate bills considerably reduced.

7. The working of the License Department appears to have been satisfactory. The receipts from the trade and profession tax, which had never before exceeded Rs. 2,65,996, rose to Rs. 2,79,313 for the old area and Rs. 34,951 were collected for the added. portion of the Suburbs. Here, however, as elsewhere, the report is disappointing in that no attempt has been made to illustrate the working of the new Act. Most important changes were introduced by that Act in the system of assessments, the gradation of trades and professions and the penal sections, and the manner in which they have worked ought to have been set forth in the annual report for the first year of its operation.

8. As already stated, the annual valuation of Calcutta for the past year was Rs. 1,73,70,515. The apparent increase is only Rs. 26,408, but the real increase is Rs. 2,76,408,

after allowing for a nominal reduction of 21 lakhs in the valuation of the Kidderpore dock premises. The Lieutenant-Governor understands that the Port Commissioners accepted a valuation of $7\frac{1}{2}$ lakhs, being $7\frac{1}{2}$ per cent. on the estimated capital outlay of their property, because under the Bengal Municipal Act they would only be called upon to pay one-fourth rates on the excess over one lakh of rupees; but that they demurred to this valuation being maintained under the Calcutta Municipal Consolidation Act, which fixes the lower percentage of 5 per cent. on the capital outlay, but charges full rates on the whole amount, and that they eventually consented to a compromise by which they should pay the full rates, but have the valuation reduced to 5 per cent. on the assumed capital outlay. Hence there is a nominal reduction in the assessed value which will, however, entail a considerable increase in the rates hitherto paid by the Port Commissioners. When the docks are completed a proper valuation will be made under the provisions of Act III (B.C.) of 1890.

9. The Commissioners appear to take an unfavourable view of the question of assessments under the new Act, and observe that "those who have to administer the law must experience considerable difficulty in working it." In the Lieutenant-Governor's opinion, however, the figures which are furnished by the Commissioners seem to show that the assessment provisions of the Act were worked with facility. The whole area of Calcutta must be revalued under the law every six years, and during the past year five wards out of twenty-five, or more than the due proportion, came under revaluation, and the work was completed by the Assessor with punctuality. The wards revalued were those in which under-assessment had been very general, and the valuation was raised by the Assessor from Rs. 25,41,387 to Rs. 31,53,952. Out of 1,414 objections which were preferred, no less than 1,249 were filed on or after the 16th of March, and of these 22 were disposed of before the close of the year. The whole of the objections filed before the 16th March were duly disposed of. It is observed also that out of the 212 objections decided by the Chairman and Vice-Chairman, only 6, of which 2 were pending and 4 have been rejected, were appealed to the Small Cause Court within the year. These results indicate satisfactory promptitude in the disposal of work. They also show that the assessment provisions of the law were administered with leniency. It is no doubt a judicious policy, upon the first introduction of a principle of assessment which, however fair and reasonable, does considerably increase the taxation of those who were formerly much under-assessed, to lean upon the side of moderation. But it must be remembered that under-valuation in one direction is equivalent to the unfair augmentation of the burdens of those whose property is fully valued, and that justice to the rate-payers in general demands that no particular section of the community shall be treated with favour or partiality. Upon the Chairman, the Vice-Chairman, and Assessor of the Corporation rests the responsibility of seeing that assessments are equitably made in accordance with the law.

10. Owing to the large fluctuating population of Calcutta it is not possible to estimate the increase or decrease, as is usually done, by the number of births and deaths, and the vital statistics of the town are therefore still calculated on the census of 1881. Upon this basis the number of deaths in the town proper was 26.9 per thousand against 27.7, the mean of the decade; while in the amalgamated area of the Suburbs it amounted to 46.9 per thousand. The number of cholera deaths in the town proper was 1,071, which, with two exceptions, is the lowest mortality since the introduction of a pure water-supply. The Health Officer observes—

"The years 1871 and 1880 had respectively 800 and 805 deaths. There is a marked periodicity about these low rates from cholera, which seems to point to some biological law in the life history of the cholera contagion, in the form perhaps of some periodic struggle for existence which, when recovered from, is followed under favourable conditions for a time with a remarkable vigour. To remove those favourable conditions is practically to stamp out cholera, a consummation which, as far as Calcutta is concerned, will no doubt in time be effected. In the days before the water-supply, i.e. before 1869, there was a similar periodicity, only with this difference, that the lowest annual number of deaths was 2,270 and the highest over 6,829, whereas after the introduction of the water-supply the lowest was 800 and the highest 2,272."

11. Nothing could demonstrate more eloquently than these figures the immense sanitary boon conferred on Calcutta by the Water-supply. introduction of a water-supply. The Commissioners are to be congratulated on the vigour they have displayed in the administration of this department of the Municipality, and on the systematic manner in which they have extended the benefits received to all portions of the town. Shortly before the commencement of the official year under review a third pumping-station was opened at Halliday Street to remedy the scarcity of water in the riparian and other wards, and Dr. Simpson reports that the favourable effect on the cholera rate was at once marked and has been continuous. A fourth station will soon be constructed in Bhowanipore to supply the Suburbs. The work of connecting that portion of the Suburbs which could be directly supplied from the town mains was completed in September 1889, and at the close of the year the length of mains and services on the filtered system amounted to 184 miles. There are now 990 stand-posts on the filtered and 2,505 ground hydrants on the unfiltered system. The population supplied with filtered water at the date of the Engineer's report was 480,019, which includes 75,800 of the suburban amalgamated area. The supply had then reached an average of 35.4 gallons of filtered water and 8.9 gallons of unfiltered water per head of the population. Although these results have been attained at a great cost to the town, amounting in round figures to Rs. 1,42,72,897, there can be no doubt that this outlay has been amply repaid not only by the improved health of the inhabitants, but also by the increase of wealth and material prosperity which the reputation for improved sanitation has attracted to the city.

12. But important as the question of water-supply is, and beneficial as the Ventilation of the city by proper cets and squares the most importoutlay has been, the possession of good drinkingstreets and squares the most ant sanitary want of Calcutta. water is after all only one of the necessary conditions for the enjoyment of healthy life in a crowded city. When all has been said, it must be admitted that the conditions of life in the Metropolis of British India are still highly insalubrious. The cholera map of Calcutta is still simply a map in which the whole of the native town appears one mass of red dots indicating cholera deaths during the year, and the inspection of this map, with its record of more than one thousand deaths from preventible disease, cannot fail to awaken in the mind of every one who sees it a sense of how much there still remains to be done to improve sanitation. Sir Steuart Bayley has always cordially acknowledged the value of the work already accomplished by the Commissioners, but at the same time he has taken every opportunity of pointing to the work there still remains to do. The success they have attained must be their strongest incentive to further effort. The Health Officer of the Corporation has, therefore, in the Lieutenant-Governor's opinion, rendered a valuable public service in nov calling attention in the most prominent manner to the ventilation of the city by proper streets and squares, and to the enforcement of proper building regulations, as the most important sanitary measures which it remains for the Municipal Commissioners

to undertake. Pure air is as much a necessity for the public health as pure water, and the overcrowding of buildings, as Dr. Simpson points out, not only impedes the circulation of air and disseminates disease along the poisonous alleys, often not more than three feet in width, which divide house from house and harbour the germs of all disease, but it prevents the possibility of laying down proper and efficient drainage and hinders and adds to the cost of scavenging. The diagrams which accompany the Health Officer's report show convincingly the urgent character of the remedies he proposes. They show at a glance how the ground is covered with houses without open space between, and how narrow streets, winding lanes and numerous passages afford complete obstacles to efficient ventilation. The fine new street, known as the Central Road, which the Commissioners have at great expense determined to cut through the most overcrowded and overbuilt portion of the city, is a very praiseworthy enterprise and most creditable to the Municipality. This road will be 70 feet wide with 50 feet for carriage way, and nearly two miles long from the Hooghly Floating Bridge to the Sealdah terminus of the Eastern Bengal State Railway. The first section of this road from the bridge to Clive Street has been completed; the land acquisition for the rest is proceeding, and a considerable portion at the Sealdah end has been cleared of buildings. This road, though it is progressing less rapidly than the Lieutenant-Governor could wish, is a most important and valuable sanitary improvement. But it is justly observed by Dr. Simpson that this one street, however excellent it may be, will exercise but a small influence in doing away with the evil of congested and unregulated buildings, unless streets from north to south and south to north be constructed to meet it. The great structural defect which prevails, especially in Burra Bazar, but also throughout the whole of the heart of Calcutta where the residents of the city dwell, is, and always has been, due to the toleration of too many houses and too many people on too limited a space, instead of forcing them to spread out on a wider area. The plan or construction of the city being radically defective, the supply of every other sanitary improvement is only palliative while that constitutional defect remains. It will never be possible to wipe away the reproach under which Calcutta labours as the home of cholera until the present germ-laden air is as

purified from contagion as is the filtered water now drunk by the people.

13. The necessity of ventilation has been emphasised by the process of tank-filling which for years past has been going on in the city. Each one of these tanks was a cup of poison, and their obliteration therefore was a positive boon of the highest quality. In place of the water from these tanks, worse than London sewage as it was described, the purest possible water is now supplied from the Pulta water-works. On the other hand, these tanks were open spaces which allowed the admission of air and placed some restriction on the crowding together of buildings. But now the sites on which the tanks formerly existed are being built over without stint or any regard to structural considerations,

and one evil is thus rapidly giving place to another.

14. The demand for residential houses is now so great in Calcutta that there is a marked tendency to construct brick houses on bustee sites. But unwholesome as were the bustees, it were almost better from a sanitary point of view to have bustees through which the wind can permeate than groups of high houses if these are to be separated from each other only by narrow, tortuous and foul alleys which, in Dr. Simpson's expressive words, "signify obstruction of traffic, obstruction of proper circulation of air, overcrowding of houses and inhabitants with all their attendant evils, foul and inefficient drainage and pollution of air by sewage, by sewer gas, by unremoved filth from defective scavenging, and by the organic products given off from animals and men living in a crowded state."

15. Dr. Simpson then points out that the executive is powerless to prevent these defects under the existing law or bye-laws, that there is no regulation as to the minimum yidth of existing or new streets, and that the only real control the Commissioners can exercise is by planning out the city under section 208 of the Act, with the aid of engineers and medical men, in accordance with certain laid down sanitary principles. There are also the problems of the ventilation of houses and the ventilation of rooms to be considered. For all these difficulties the Health Officer purposes remedies in detail, and suggests

that a Committee formed of engineers, medical men and others should be appointed to thoroughly investigate and report on the whole subject.

16. The Lieutenant-Governor trusts that this suggestion will receive the

very early attention of the Chairman and of the Commissioners.

17. The most important work undertaken in the Drainage Department of the Municipality is the survey for drainage of the Suburbs, which is still in progress. There are two parties engaged, one for the south-eastern area and the radical outfall into the Biddiadhary river, and the other for the southern area, which is for surface drainage only.

18. The total expenditure incurred on bustee cleansing and structural improvement during the year was Rs. 2,46,572. Under section 37, clause 7 of the new Act the Municipal Commissioners are required to devote to Bustee cleansing, structural and Suburban improvement. the improvement of the area added to Calcutta a sum of not less than three lakhs of rupees annually, and the Lieutenant-Governor requests that in future reports the manner in which this provision of the law has been complied with may be specifically stated. The information furnished on this subject in the present year's report is insufficient.

19. Upon the whole there can be no doubt that the administration of the Calcutta Municipality during the past year was

marked by very satisfactory progress, great attention to work on the part of the Commissioners, and improvement in all directions. The extension of the water-supply and of suburban drainage, the improvements in the flushing of the sewers, the large sums expended on maintenance of roads, the inception of the new Central Road, the experimental construction of refuse incinerators, the revision of assessments, the acquisition of land for a new dhobikhana, and many other important matters, sufficiently attest the activity of the Commissioners and of the officers of the Municipality in the discharge of their duties. The year was also marked by harmonious relations between the Commissioners and the Executive, and the Lieutenant-Governor is glad to observe in the present report the absence of any jarring or discordant note.

20. The Lieutenant-Governor cannot conclude this Resolution without expressing his high appreciation of the services Services of Sir Henry Harrison which have been rendered to the City of Calcutta by the late Chairman, Sir Henry Harrison. For nine years he was Chairman of the Corporation, and the successful administration of the affairs of the Municipality during this long period, the firm financial credit of the Commissioners, the innumerable sanitary reforms effected, especially the extension of the water-supply and the conservancy of bustees, the increase in material prosperity in the city which in consequence of these reforms has shown itself in so marked a degree that the value of land in Calcutta generally may be said to have doubled, the reorganization and reconstruction of nearly every department of work, the hearty zeal and co-operation with which the Commissioners as a body now unite with the Executive to advance the welfare of the city,-an attitude for which they were not always distinguished, but which is in itself the best testimony to the capacity of a Chairman,—the methodical and systematic development of civic administration in all departments, are a sufficient and lasting tribute to the manner in which Sir Henry Harrison has discharged the duties of his responsible, difficult, and thankless office. His name will always be honourably associated with the growth of municipal institutions in the Metropolis.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE TRIBUTARY STATES OF ORISSA FOR THE YEAR 1889-90.

POLITICAL

Dated Darjeeling, the 4th November 1890.

READ-

The Annual Report on the Administration of the Tributary States of Orissa for the year 1889-90.

Read also-

The Reports for the years 1887-88 and 1888-89 and the orders of the Lieutenant-Governor recorded thereon.

The Lieutenant-Governor is glad to observe that the instructions contained in last year's Resolution on this report have been followed in the preparation of the present one, which is concise and furnishes fuller statistics than before, but the Superintendent will be requested to observe greater punctuality in future in its submission. Mr. Hopkins held charge of the office of Superintendent of the Tributary Mehals of Orissa from the beginning of the year to the 31st December 1889, when he was relieved by Mr. Worsley, the present Superintendent.

2. Raja Balabhadra Sing Mandhata of Nayagarh having died heirless on the 2nd March last, Babu Raghunath Sing Hari Chandan, a relative of the late Chief, has been allowed by this Government to take possession of the guddi as a provisional arrangement, subject to the approval of the Government of India. This succession has been contested by the Raja of Khandpara, and the

final decision of the matter is now under consideration.

3. The partial failure of crops in consequence of the irregularity and deficiency of the rainfall during the years 1887-88 and 1888-89 brought about a scarcity of food-grains in most of the Tributary States and the Government estates of Angul and the Khondmals during the past year. The States of Mohurbhunj, Nilgiri, Keonjhur, Pal Lehara, Dhenkenal, and Atgarh were little affected by the distress, but it was severe in other places, and was further augmented by the outbreak of cholera and small-pox, which considerably increased the mortality. The people who suffered most were the aboriginal and semi-Hinduised tribes who form the landless class and live partly by labour and partly on jungle produce, and their sufferings were intensified in some cases by delay in the commencement of relief operations. On the appearance of serious symptoms of distress the necessity of vigilant supervision was impressed upon the Superintendent, and in July 1889 Sir John Edgar, K.C.I.E., C.S.I., Chief Secretary to this Government, was specially deputed for the purpose of making personal enquiries into the condition of Angul and some of the affected tracts in the Tributary States, as well as in the Regulation districts. Immediate measures were also adopted for the alleviation of the distress by the opening of relief works, supply of gratuitous relief, grant of money advances and agricultural loans, as well as loans to the Tributary Chiefs who applied for them, relaxation of forest rules, &c., the details of which have already been separately reported to the Government of India. The rainfall of the past year was much above the average of the three preceding years, and there has been, on the whole, a fair outturn of crops. The relief operations have consequently been discontinued and the people are reported to be in a comparatively prosperous condition. The following deductions from the events of the past year, recorded by the Superintendent, are interesting and instructive:—"The experience of the past year seems to enforce two important lessons—first, that in such tracts as the Tributary States, which are without good roads and communications, and in which professional grain-dealers are almost unknown, comparatively slight misfortunes, such as unsetsonable drought and a failure of fruits and jungle produce following on two or three short harvests, may convert a temporary pressure into scarcity and sharp distress; and secondly, that no time must be lost in commencing relief operations when actual distress once appears. The Superintendent finds no reason to suppose that there was an absolute want of grain last year in any of the affected tracts, and thinks that the holders in Angul would have opened their stores more freely if they had felt confidence

that any deficiency of food which might occur would be supplied.

4. In a year of scarcity the public health could not be expected to be good. As noticed above, cholera and small-pox caused great havor during the period of scarcity which lasted from April to November, but the actual statistics of mortality could not be collected, although an attempt was made with that object. In Angul alone the estimated deaths from these diseases were 3,028 and 131 respectively, while 1,974 more are attributed to starvation. After the rains of November malarious fever appeared in an epidemic form, and the people suffered from it severely. Influenza also broke out in several of the States during the past year. The total number of persons vaccinated during the year was 26,906, against 23,427 in the preceding year. It is strange that out of 73 and 490 operations in Baramba and Daspalla respectively not a single case is said to have proved successful, while in Angul 4,650 out of 4,758 were effectual. The Lieutenant-Governor has no great faith in the statistics appended to the report. It appears that there are no local trained vaccinators, and that there is no effective control over those who are brought in from Cuttack. Operations conducted in this way are not likely to commend themselves to the people, already prejudiced as they are against vaccination. The suggestion of the Superintendent to train local men as vaccinators and to let them work under the supervision of the local medical officers is a good one, and he will be requested to report the result of the reference he proposes to make to the Sanitary Commissioner on the subject. No new dispensary was opened during the year, but the existing institutions are reported to be gaining popularity

5. The mineral wealth of the Tributary Mehals has not been completely explored, but it is probably not inconsiderable. Coal mines exist in Angul and Talchere, and there are mines of mica and stone quarries in Nilgiri, Dhenkenal, and Angul. Iron ore is found in Dhenkenal, Angul, Talchere, Mohurbhunj, and Athmullik. The principal industries are weaving and the manufacture of brass and bell-metal wares, but both are now on the decline. Gold washings carried on in river-beds in Mohurbhunj, Dhenkenal, and Angul have hitherto proved unremunerative. There was no export of food-grains during the past year owing to the scarcity, but oilseeds and forest produce were largely exported.

The chief articles of import are salt and English-made cloths.

6. The statistics furnished of the civil and criminal cases instituted in the courts of the Tributary Chiefs do not include the large number of petty cases which are decided by them orally, and the proceedings of which are not recorded. The total number of civil and revenue cases in the courts in the Tributary States established under the authority of the British Government fell from 10,102 to 8,402, the decrease occurring chiefly in Angul, Baramba, Dhenkenal, Mohurbhunj, and Nursingpore. Out of 193 civil and 70 revenue appeals, 214 were decided during the year and 49 remained pending at its close. The total number of offences reported during the year was 2,614 against 2,691 in the preceding year; of these 2,074 were returned as true, against 2,057 in 1888-89. The number of cases brought to trial, including those pending from the previous year, was 1,982 against 1,865 in 1888-89; and of 4,287 persons concerned in these cases, 999 were acquitted or discharged, 3,216 were convicted, 22 died, escaped, or were transferred to other courts, and 51 remained under trial at the end of the year. There were only 75 criminal appeals, of which 15 were rejected, and in 35 the orders of the lower courts were confirmed, in 10 they were modified, and in 15 reversed.

7. In Angul the total realizable land-revenue demand for 1889-90 amounted to Rs. 47,117-14-11, of which Rs. 26,870-1 were collected during the year; of the large balance of Rs. 20,247-13-11 outstanding at the close of the year, which was due to the inability of the ryots to pay in consequence of failure of crops, Rs. 15,125 have since been realized. No land revenue is paid in the Khondmals. The total receipts of the Khondmal Road and School Funds amounted to Rs. 3,578-7 and Rs. 2,337-15-11 respectively, and the two funds showed a balance of Rs. 2,984-2-8 and Rs. 2,944-10-7 respectively at the close of the year. The following statement shows the demands and collections on

account of land revenue in the five States under the direct management of Government:-

| Name | of State. | Total realizable including a | | | Amount collect the year | | ring | Balance outstan | | at the |
|-------------|-------------|---------------------------------|----|----|----------------------------|----|------|-----------------|----|--------|
| | | Rs. | ۸. | P. | Rs. | Α. | P. | Rs. | Α. | P. |
| Mohurbhunj | 201 | 2,37,386 | 10 | 91 | 2,19,467 | 6 | 9 | 17,919 | 4 | 01 |
| Dhenkenal | *** | 99,363 | 8 | 4 | 70,507 | 3 | 4 | 28,856 | 5 | 0 |
| Baramba | | 34,388 | 9 | 5 | 19,562 | 8 | 44 | | 1 | 01 |
| Nursingpore | 10 March 10 | 37,414 | 4 | 6 | 22,366 | 10 | 1 | 15,047 | 10 | 5 |
| Pal Lehara | | 30,339 | 12 | 8 | 19,905 | 2 | 51 | | - | 21 |

The high prices of food-grains and the very generally prevailing distress necessarily affected the realization of land revenue. The Mohurbhunj State has already been made over to its Chief, and the responsibility of Government for the collection of arrears no longer exists. In regard to the other States, the Superintendent has already issued instructions for the recovery of the arrears as early as possible. The financial management of these five States during the past year was satisfactory. The resources of the Pal Lehara State, which recently came under the management of Government, and which is involved in heavy debts contracted by the late Chief, require improvement, and the Superin-

tendent has directed his special attention to this subject.

8. The settlement operations in Angul are nearly complete. The assessment work was finished in December last and shows an increase of revenue from Rs. 36,898 to Rs. 1,10,547. This very large increment has resulted, not from raising rates, but from changes in classification and especially from the assessment of lands brought into cultivation but hitherto unassessed. Still it would be impolitic and scarcely just to attempt to enforce the settlement completely at once. The Lieutenant-Governor has postponed the enhancement altogether till 1892; then the newly-assessed lands are to pay half rates for five years, at three-quarter rates for five years, and then for five years at full rates. These concessions will, it is hoped, prevent the settlement from being too great a burden. In the Mohurbhunj State 19 pergunnahs have been resettled since the assumption of its management by Government. Under the terms of the resettlement, the revenue of these pergunnahs has been increased from Rs. 79,133 to Rs. 1,97,428. The settlement of 70 villages in Nilgiri has been completed, and the result shows an increase of assessment from Rs. 6,955 to Rs. 14,747.

9. The total number of schools was 1,128 with 14,407 pupils against 1,182 schools with 15,153 pupils in 1888-89. There were seven girls' schools, the same as in the preceding year, but the number of pupils fell from 448 to 425. There were also 266 girls reading in the boys' schools during the past year. One girl passed the lower primary scholarship examination from Angul and obtained a scholarship. There were 1,592 children of the aboriginal races under instruction against 1,541 in the preceding year. The total expenditure on education in the Gurjats during the year amounted to Rs. 67,155, of which

Rs. 7,570 were borne by Government.

10. The area of reserved forests in Angul was not extended during the year. The management of the forests is very expensive, the annual average expenditure of the last four years being nearly thrice as much as the receipts. This abnormal deficit is explained by the Superintendent to be due to the fact that Angul is unable to compete with the cheaper timbers of the neighbouring The distressed condition of the people during the past two years necessitated the relaxation of the forest rules with a view to allow them free access to the reserves to collect edible roots, fruits, sago-palm, iron stone, and fuel. With the object of improving the condition of the landless classes of Orissa and protecting them from scarcity in future, Sir John Edgar has made some valuable suggestions for reconstituting the forest reserves in Angul and Khurda and re-organizing their administration. The question is now under consideration. The forests in Mohurbhun, Dhenkenal, Baramba, and Nursingpore were administered by the respective Managers of those States.

11. The remarks concerning the merits of officers will be noted in the Appointment Department. The Lieutenant-Governor has read with satisfaction

the favourable report which the Superintendent has given of the administration of Keonjhur, Hindole, and Athmullik by their respective Chiefs. Since the close of the year under report the minor Chief of Mohurbhunj has been placed in charge of the State. Both by his disposition and by his acquirements he appears to be well fitted for his high position, and there is much reason to hope that he will prove himself an efficient ruler.

ORDER.—Ordered that a copy of the above Resolution be forwarded to the

Superintendent of the Tributary Mehals, Orissa, for information and guidance.
Ordered also that a copy of the report, together with a copy of the Resolution, be submitted to the Government of India, in the Foreign Department, for

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS, Offg. Chief Secy. to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE BOARD OF REVENUE ON WARDS' AND ATTACHED ESTATES IN THE LOWER PROVINCES FOR THE YEAR 1889-90.

REVENUE DEPARTMENT-LAND REVENUE.

Calcutta, the 4th November, 1890.

RESOLUTION.

READ-

The Report of the Board of Revenue on Wards' and Attached Estates in the Lower Provinces for the year 1889-90.

The rent-roll of the Wards' and Attached Estates under the management of the Board of Revenue slightly exceeds the large sum of a hundred lakhs, or a crore of rupees a year, and the collections in 1889-90 were nearly 103 lakhs, being better than the current demand by Rs. 2,74,728. This result is the best ever attained, except in the year 1878-79. The explanation given in regard to the estates on which collections have been deficient are generally satisfactory, the exception being in the case of the Chandra Kumar property, Shahabad, where only 75 per cent. of the current demand was realized—a result attributed to the "unsettled condition of certain villages which are over-assessed, the villagers being burdened with debts incurred during the time of the late proprietor." Upon this subject a special report will be made to Government showing what steps have been or should be taken to reduce any over-assessment established to the satisfaction of the Board and generally to assist in the restoration of prosperity. It is most necessary that Managers should observe every indication of the exceptional misfortunes which occasionally afflict particular villages, even on estates where the ryots as a body are doing well, and should be ready to aid in removing or mitigating the causes of distress, particularly when these are connected in any way with the assessment of rent. As to the Dhalbhum Estate, on which collections amounted to only 72 per cent. of the current demand, it is stated that "a large portion of the balance (Rs. 96,291) shown against pergunah Dhalbhum alone is disputed and irrecoverable, as the resumed ghatwali tenures. are said to have been assessed by the late proprietor's amla in a most perfunctory and summary manner without the knowledge of the tenants and without acceptance by headmen and tenure-holders." And the Board add that, "with a view to dispose of the objection raised by the tenants, the remeasurement and re-assessment of 111 villages of the pergunnal have been undertaken." The Lieutenant-Governor will be glad to learn the result of these remeasurements,

which should be observed with care by the Revenue authorities. In Deo the collections from the middlemen who farm the estate were very bad—a result attributed to opposition on their part to the management of Government. This is a matter requiring the careful attention of the Board and the Commissioner. The system of ticcadari management is not in itself commendable; it is maintained merely as an expedient for temporary convenience, to facilitate collections when the Manager is not, for any cause, able to do what is properly his own work; and if in this particular case the ticcadars perversely decline to meet their liabilities, the question arises whether it would not be wise to survey the estate at once and introduce khas management.

2. The good collections of the year have slightly decreased the large outstanding balances which constitute so objectionable a feature in the administration of these estates, while more has been done in the same direction by granting remissions (which generally means writing off debts barred by limitation, with the result that the arrears have been reduced from 108 lakhs to 82. This is satisfactory as far as it goes; but the Lieutenant-Governor considers that greater energy should be shown in the work of retrenching from the accounts, at an early period of the management, demands which cannot be recovered, because they were never valid, or because they are barred by limitation. The existence of such demands affords the inferior collecting agency an opportunity for embezzlement. The Srinagar Ward's Estate has been seven years under the management of the Board, and their attention has been repeatedly called to the large balances outstanding; yet a sum of Rs. 83,432 is entered as still due from the period before the Board took charge. The Bhowanipore Estate, with a rent-roll of Rs. 1,62,576, shows, after large reductions, a balance of Rs. 9,63,321, most of which is classified as bad and irrecoverable and must presumably be barred by limitation, if it was ever really due.

3. The Lieutenant-Governor notices with satisfaction that the claims of Government dues.

Government dues.

Government on Wards' and Attached Estates have been satisfied during the year, the moderate balance (since paid) of Rs. 18,174 being more than equalled by advance payments made on other estates. This is an important branch of Wards'

administration, which at one time received insufficient attention.

4. The general financial results of the year cannot be regarded as satisfactory, inasmuch as the debts due by estates increased from 45 lakhs to 48, the cash balances diminished from 24 lakhs to 17, while only four lakhs were invested or spent on the purchase of land. The law charges, which amount to nearly 18 lakhs, are heavy, and in this direction the Lieutenant-Governor would desire to see a reduction.

The amount spent on improvements, Rs. 66,930, is somewhat in excess of the expenditure under that head in previous years. But on some properties there is obviously a deficiency in this respect: for instance in Cossimbazar, with a rent-roll of over four lakhs, the outlay on improvements was only Rs. 4,668, while Rs. 75,067 were invested; in Narhan, with an income of nearly two lakhs, nothing was spent on improvements, while a lakh was invested. The Lieutenant-Governor is aware of the objection to sanctioning expenditure of this nature where the Manager cannot indicate any scheme for improvement, whether in the way of irrigation, drainage, planting of trees and fuel shrubs, or otherwise; but it is precisely such difficulties as these that a duly qualified Manager is expected to overcome. No Manager can be considered to have fully performed his functions if, on surrendering the estate to the Ward after a lengthened period, and having had surplus funds to use, he has done nothing for the property.

6. The most important improvements during the year were those made by effecting surveys and records of right. Bengal Tenancy Act. It is very generally found that when the Court takes possession of an estate, the papers which should show what amount of cent is due from each ryot are unworthy of trust, and when such is the cast, no greater benefit can be conferred on all the parties concerned in efficient management than to ascertain and record their permanent rights and liabilities. This should be done under existing orders whenever the Collector is unable, with regard to his responsibilities in proceedings of a

quasi-judicial character, to issue certificates for rents on the papers in the hands of the Manager. The object of these settlements is not to enhance rents or increase the income of the Wards, but to prepare a trustworthy rent roll, without which management cannot be efficient and the collection cannot be regular. On the estate first dealt with, that of Srinagar, the effect has been to yield more than 9 per cent. on the outlay, and similar results are being obtained elsewhere, but it is not to be assumed that settlements are to be made only when direct profit of this kind is to be expected. The Lieutenant-Governor learns without surprise that in one instance what was alleged to be the existing rent was actually reduced by nearly 50 per cent. on the ground that the soil had permanently deteriorated owing to fluvial action. Such changes in the character of the country are, when beneficial, made the ground for enhancement, and under the law (in this matter too frequently overlooked) the tenant is equally entitled to a reduction when the effect of the change is adverse to his interests. The progress made during the year was generally satisfactory. The survey of the Srinagar Estate-695 square mileswas completed under the efficient management of Mr. Collin, and the settlement will probably be finished during the current month. Maldwar has been finally dealt with. In Sunkerpore, Burdwan, Churamon, Koojung and Kanika the proceedings are in an advanced stage, and the Board may now with advantage consider what estates should next be taken in hand. There are indications in the present report to show that on some the rent-roll is not worthy of trust, and more information will be obtained on this subject if Collectors fully realize that it is their duty not to issue certificates on the mere statement of the Manager that a certain sum of rent is due without first ascertaining that he is in possession of accounts which show with certainty and accuracy what is the legal demand. As an indication of the loss which land-holders not unfrequently suffer for want of proper records, the following passage is quoted from the account given of the Burdwan Raj Estate:-

"In the course of the survey it was found that a large number of mouzahs belonging to the Raj, which had never been let in patni or otherwise alienated, had been taken possession of by other persons. In order to ascertain where they were situated and to enable the Court of Wards to adopt measures for resuming khas possession of them, a traverse and boundary survey of all lands appertaining to towjih Nos. 1, 3, and 4 of the Bankura district was ordered under section 3 of the Bengal Survey Act V of 1875. The Manager, Mr. Reily, has resumed khas possession of many of these mouzahs without opposition, and the persons in possession of others have applied to him to come to terms as to the settlement of them."

7. The Board give an account, which, except in one instance, is satisfactory, of the progress in education of each of the principal Wards. The subject is of the greatest importance, and the Lieutenant-Governor is glad to see that it meets with due attention.

8. The thanks of the Lieutenant-Governor are given to Mr. Halliday for his efficient management of the Wards Department during the year.

By order of the Lieutenant-Governor of Bengal,

The same Property and the Participant of the Authority of the Samuel States

P. NOLAN,
Secretary to the Govt. of Bengal.

RESOLUTION ON THE BOARD'S REPORT ON THE LAND REVENUE ADMINISTRATION OF THE LOWER PROVINCES FOR THE OFFICIAL YEAR 1889-90.

REVENUE DEPARTMENT-LAND EVENUE.

Calcutta, the 8th November 1890.

RESOLUTION.

READ-

Board's Report on the Land Revenue Administration of the Lower Provinces for the official year 1889-90.

The Director's Report of the Department of Land Records and Agriculture, Bengal, for the year 1889-90.

Board's letter No. 630A, dated the 13th August 1890, submitting the latter.

The moderate decrease of Rs. 10,277 in the revenue demand is more than accounted for by the fact that the owner of Jellamoota, who for many years declined to accept the settlement of his property, has done so at last, thereby becoming entitled to a sum of Rs. 58,344 a year for collection expenses, which is deducted from the income of Government. The current demand for land revenue, thus modified, amounted to Rs. 3,81,02,828, and there were arrears of Rs. 29,20,128; the collections were Rs. 3,86,65,822, and the balance uncollected, after remissions, was Rs. 22,60,785. The collections were comparatively good, being in excess of the regular income, and the best for ten years. Turning to the districts in which less was realized than 90 per cent. of the total demand, including arrears, it may be remarked that Chittagong is mainly managed as a Government estate, and in such instances it is found impossible altogether to prevent the occurrence of arrears; the payments were really satisfactory during the year, inasmuch as they exceeded the rental. In Pooree the apparent result seems to have been brought about by an error of account, which, the Lieutenant-Governor notices with satisfaction, has since been corrected under the orders of the Board. As has been pointed out on a previous occasion, Collectors dealing with rent rolls compiled according to the Bengalee year, which ends in April, are not always sufficiently careful to exclude from the demand of the official year sums not due until after its clo e-a mistake which gives to their returns an unsatisfactory appearance, and by the inclusion of fictitious demands impedes supervision over real arrears. In Chumparunand Midnapore exceptional calamities afford a sufficient explanation, and there remains only the cases of Furreedpore and Patna, as to which a separate report should be made. It is not clear why the owners of permanently-settled estates at Patna are more dilatory in payment than proprietors elsewhere, and the reference to pending settlements in Furreedpore is scarcely borne out by the figures given in Appendix X. Collections have been to some degree facilitated by the general adoption of the system of remittance by money-orders, of which 139,535 were issued during the year for an aggregate sum of over eleven lakhs.

2. The collections of the year on Government estates were good, being 104 per cent. on the current demand, and the Lieutenant-Governor approves of the remissions made on a liberal scale in Majnamoota on account of floods. This estate apparently accounts for the large uncollected balances in the Midnapore district. It is not the property of Government, but managed until the proprietor thinks fit to imitate the owner of Jellamoota by accepting settlement.

3. Out of 159,852 estates on the roll 13,656 estates or shares in estates became liable to sale during the year, and 1,273 were actually sold, the others being exempted, in almost every instance on account of the payment of revenue after the latest day fixed for that purpose, but on or before the day of sale. This practice of exemption requires regulation, too much being at present left to the discretion of individual Collectors, who have very little to guide them. The subject has been under the special consideration of Government during the year, and a Bill has been framed and circulated for opinion which has for one of its objects the framing of conditions under which payments made after the latest day

of payment and before the day of sale may be received. The number of cases in which sales were annulled on appeal is 30, and this seems to the Lieutenant-Governor somewhat large. If Collectors observed due diligence in seeing before sale that the simple preliminaries clearly prescribed by law had been complied with, such reversals, which introduce an element of uncertainty into the whole procedure, would be very exceptional. The Board may with advantage take measures to secure that due notice shall be taken of any case in which a Collector may fail to conduct a sale according to law, thereby giving reasonable grounds for setting it aside on appeal.

4. The working of the Public Demands Recovery Act, by which claims of the State other than those for land revenue are Certificate procedure. realized, was somewhat more satisfactory than in the previous year, inasmuch as fewer certificates were filed, more were executed, and the balance left pending was considerably reduced. The great majority of the certificates, as many as 72,224, were on account of the demand for road and public works cesses under Bengal Act IX of 1880-a demand as fixed and well known as that for the regular land revenue—and in nearly all such cases the default must have been wilful. It is where the procedure is used to recover a rent not fixed by any public authority that the greatest care is requisite in its working. In such instances the Collector or other officer issuing the certificate should always satisfy himself before so doing that there is satisfactory evidence as to the validity of the demand. This precaution is particularly required in the case of claims made by Managers for rent alleged to be due to Court of Wards' estates, where such rents have not been authoritatively fixed and recorded. It should be ascertained in regard to each estate, before the issue of certificates, that the accounts have been so kept as to prove that sums shown by them as due are really demandable under the law.

5. The Board and the Director of the Department of Land Records and Agriculture notice the inconvenience of the present system of reporting on settlement work according to the financial year, the natural period being that adopted for road cess purposes, that is, the year commencing with the cold weather on the 1st November. On this head a separate expression of opinion will be solicited. Now that very important settlements are being dealt with, it is desirable to make all subsidiary arrangements as perfect as may be possible. The larger settlements are supervised by the Director, who observes:—

"There were 83 estates," containing an area of 7,285 square miles, in 20 separate districts, under survey and settlement operations during the year. Of these, 51 are Government estates, with an area of 4,294 square miles, of which a resettlement of land revenue is being made; 9 are wards' estates, with a total area of 2,868 square miles, of which a survey, with a record of rights and settlement of fair rents, has been undertaken; and 23 are private zemindars' estates, with an area of 123 square miles, the owners of which applied for survey, record of rights, and settlement of rents, either on the ground of disputes existing between them and their tenants, or on the ground that they were new auction-purchasers and unable to ascertain the armounts of the rentals reveals to them."

"It will be observed that survey and settlement operations under the Bengal Tenancy Act have extended over a vast area, comprising Government, wards' and private estates, in many districts and in every division in which the Act is in force; that these operations have affected a large number of tenants, aggregating at least four hundred thousand; that an increase of rent and revenue amounting to more than a lakh of rupees has been actually obtained, with the consent of the raiyats concerned, in the estates of which settlement has been completed or is appreaching completion, yet in no single case has any rioting or disorder been reported, nor has anything like opposition of a formidable character been experienced. The number of appeals to the Special Judges from the decisions of Settlement Officers, compared with the number of such decisions, was exceedingly small. It may therefore, I think, be said that the anticipations of those who thought that these operations would lead to confusion and disorder have been wholly falsified by events. The cost of the professional survey operations has in some cases been in excess, and the cost of the settlement operations has been generally less than was estimated. On the whole, the cost has been about 8 annas per acre. Where highly-paid and efficient officers like Mr. Collin have been in charge of the operations, they ultimately cost less than where, as in some of the wards' estates in Dinagepore, lowly-paid and inefficient officers were employed. The status was recorded and the rents were settled of 171,647 tenants, of whom 5,604 ard cultivating tenure and undertenure-holders, 1,503 were recorded as raiyats at fixed rates, 102,727 as settled raiyats, 3,363

^{*} The word "estates" is here used in the sense of separate properties, not in the technical sense, according to which every area, with a separate towice number, is an estate. Each of these properties includes many "estates" in the latter sense

as settled but non-occupancy raiyats, 20,894 as non-occupancy raiyats, and 37,556 as underraiyats. These figures show that the number of—

| Tenure and underter | ure-holders is | | 3 p | er cent. | of the whole. |
|----------------------|----------------|---------------|-----|----------|---------------|
| Settled raiyats | | 1.3 | 60 | 19 | " |
| Non-occupancy raiy | | | 12 | 25 | , m |
| Raiyats at fixed rai | ies | | 1 | , ,, | 2) |
| Occupancy, but not | settled | | 2 | . 33 | ,,, |
| Under-raiyats | | *** | 22 | " | ** |
| | | | | | |
| | | Market Street | 100 | | |

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The Board, in forwarding this report, after commenting on the magnitude of the surveys in progress, observe that they have no means of testing their thoroughness, and indicate that in their opinion time alone can show whether the work has been adequately done. In Sir Stewart Bayley's opinion it is quite within the power of the Board to render their own control and supervision adequate for all purposes, but if the law or rules are found to be practically deficient in this respect, he will be glad to consider any suggestion which the Board may have to make on the subject. That the work and responsibility falling on the Director in the supervision of these numerous settlements is very onerous, admits of no more doubt, than does the ability and industry which he brings to bear on the work, but in the Lieutenant-Governor's opinion it would be well if the Member in charge could find time occasionally to inspect on the spot the work of settlement in some of the larger estates, and by this means keep a close touch with the work of the department.

Embankments. 6. Under this head the Board observe—

"In Bankoora an embankment was constructed during the year in the Government estates Pithaipore and Rajarbari, to protect them from the floods of the river Darkessur, at a cost of Rs. 2,060. The Bhagirathi embankment in Moorshedabad was breached during the year at a place called Rampal, 4 miles above Lalitakuri, and the results were serious. The breach was caused by malicious cutting. Much damage was also caused by a breach at Bairamgunge, also the result of deliberate mischief. In Chittagong a sum of Rs. 5,849 was spent on the Kutubdia embankment in turfing the new banks put up last year."

The subject has heretofore been dealt with in the annual revenue reports somewhat cursorily, and the Lieutenant-Governor would be glad if the Board would pay special attention to the matter next year. The question whether existing embankments should be retained, or new works of the kind constructed, is literally of vital importance in many districts, and more especially in Midnapore. The first effect of an embankment made with any judgment is almost invariably good, as it protects crops from destruction and villages from grave inconvenience; but in the course of years other consequences ensue, the embanked river rises in its bed owing to alluvial deposits, while the surrounding country remains, behind the embankment, at the old level, with the result that the normal height of the the embankment, at the old level, with the result that the river rising water is eventually above that of the adjacent fields, and the river rising water is eventually less capable of carrying its flood waters. This is a most dangerous position, as not only are floods under such circumstances very destructive if any breach occurs, but the water they bring will not flow off, and the fields remain submerged until, after a lengthened period, they are dried up by the slow action of evaporation. The subject has engaged the anxious attention of Sir Steuart Bayley, and, indeed, few matters are at present more pressing.
7. The Board state that 4,448 acres of land were acquired during the year

The Board state that 4,448 acres of land were acquired during the year at a cost of Rs. 17,48,683, and subject to an abatement of Rs. 1,122 a year revenue. The report gives other details, but does not deal with such questions as the supervision necessary to check the irritating and expensive delays which often occur in land acquisition proceedings, the difficulties which have arisen in assessing the value of the land taken up, and how these difficulties have been dealt with. The Lieutenant-Governor will be glad if in future reports the Board will pay special attention to these points.

8. The Board observe that, "judging from the year's experience, the Act.

Working of the Bengal Tenanch appears to have worked smoothly, and it may be remarked again that the flood of litigation which was foretold as likely to be one of the first results of the passing of the Act has happily not yet occurred." The sale of printed forms of receipt on the part of

Government continues to be large, amounting to Rs. 12,87,625, although private presses issue the forms at cheaper rates and presumably do a much greater business. These figures indicate that much is being done in the direction of silently establishing a record of existing rents where all was previously in confusion. In illustration of the evils which this part of the Act is intended to remedy, the following account may be quoted of one large estate, on which a record of rights is being made at the request of the owner:—

"The Settlement Officer reports that the Rajah's zemindari papers were in such a state of disorder that it has been extremely difficult to ascertain facts. The jama-wasil-baki papers, with some exceptions, show the rent of each holding in the village separately, but the ryots alleged that they made lump payments, though the lands comprised in their respective holdings lay scattered in two or more villages, and stated that the Rajah's gomastas or collecting agents granted them rent receipts accordingly. In ascertaining the existing rent with a view to the settlement of fair rents, it came to light that while a ryot cultivated no land in a village, a certain amount of rent was entered against his name in the jama-wasil-baki papers of that village; and, on the other hand, while a ryot did cultivate a certain area in a particular village, his name did not appear in the jama-wasil-baki of that village. The Settlement Officer has in numerous instances found that ryots cultivating land in one village have got their rents entered in another, and the confusion was made the greater by the absence of any record of mutation of holdings, subdivisions of tenancy, or distribution of rent in the Rajah's sherista. The result is that in many villages neither the names of ryots nor the amount of their rents, as entered in the zemindari papers, correspond with the entries in the khatians. The road cess papers of 1880, which, it was agreed, should be the basis for ascertaining the existing rents, were prepared from these zemindari papers, and consequently are incorrect. It has therefore been a work of time and much labour to ascertain the correct rent payable by each ryot."

As many as 52 applications for settlements on private estates were made during the year, against 40 in 1888-89, and much useful work has been done in the direction of ascertaining and fixing rents. The only part of the Act to which general exception has been taken on the basis of actual experience of its operation is that which enables those transferring tenures to give notice of the transactions to their landlords, paying ceratin fees through the Courts, and the force of the objection made under this head has been much diminished during the year by the reduction in the number of such notices from 63,372 to 29,898. In dealing with agrarian questions in Chota Nagpore, Orissa and the Sonthal Pergunnahs, which are administered under special laws, the Lieutenant-Governor has had occasion to regret the absence of the powers conferred by the Bengal Tenancy Act in the rest of the Lower Provinces.

9. The thanks of the Lieutenant-Governor are given to the Hon'ble Mr. Halliday for his excellent administration as Member of the Board during the year; to Messrs. Smith, Worsley, Lyall and Grimley, Commissioners, for good revenue work; to Mr. Finucane, Director of the Department of Land Records and Agriculture, for the skill and discretion with which he has supervised very difficult settlement operations; to Mr. Edward Collin, who actually carried out the largest of these settlements. The work of the following Collectors and Deputy Commissioners has received the favourable notice of the Board:—

| Mr. W. B. Oldham. | Mr. R. Cornish. | Mr. H. A. D. Phillips. |
|---------------------|---------------------|-------------------------|
| " A. W. B. Power. | " R. C. Dutt. | " H. Lee. |
| " A. Forbes. | " F. R. S. Collier. | " J. G. Ritchie. |
| " A. A. Wace. | " C. P. Marindin. | " F. A. Slack. |
| " W. Fiddian. | "G. A. Grierson. | ,, W. C. Macpherson. |
| " H. G. Cooke. | " L. Hare. | " R. T. Greer. |
| " C. A. Samuells. | " D. B. Allen. | ,, E. N. Baker. |
| " J. A. Bourdillon. | " H. Savage. | Colonel W. L. Samuells. |

The names of the other revenue officers commended by the Board will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE PATNA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT-MISCELLANEOUS.

Darjeeling, the 8th November, 1890. RESOLUTION.

READ-

The General Administration Report of the Patna Division for the year 1889-90 This report has been prepared under disadvantageous circumstances, as Mr. Kemble, by whom it is submitted, was not in charge of the division during any part of the period to which it relates; while of the reporting Collectors, Mr. Bourdillon, of Chupra, is the only one who held that office for the greater portion of the year.

2. The Lieutenant-Governor entirely approves of the plan on which the tours were conducted. As stated by the Commissioner, the Collectors were constantly moving about, and went out from head-quarters, even in the hot and rainy seasons, when their presence was required in the interior. They all seem to have found more or less that long, continuous rounds of inspection were not possible, as appeals, municipal and excise matters, land revenue and treasury questions, and other duties constantly demanded their attention at the sudder station. Indeed, under existing circumstances it is by no means desirable that Collectors' tours should generally be continuous, or should take the old form of a slow progress in camp. The objections to a system of government by orders from head-quarters without local enquiries or inspection are as strong as ever; but the means by which the necessary communication between a district officer and the inhabitants of the various towns and villages in his jurisdiction should be kept up must vary with the altered conditions of the present day. Among subdivisional officers, Mr. Mackertich, of Sasseram, was only 80 days on tour, Baboo Radha Madhub Bose, of Bhabuah, only 70 days, the explanation given in the former case being heavy current work, in the latter sickness. The Lieutenant-Governor will ascertain whether the consent of the District Collector had been obtained to the curtailment of the tours on these grounds. The prescribed period in the case of subdivisional officers having been reduced by recent orders, it is unsatisfactory to find that it is not in every instance observed.

3. The question whether the normal condition of the working classes in Material condition of the people. Behar can be considered satisfactory has recently been examined by this Government in a special report, and need not be discussed here. The special circumstances of the year 1889-90 were unfavourable, as prices were high, the harvest of the previous season was bad, and, except in Chumparun, fever was prevalent. Wages are returned as having risen in the district of Durbhunga, and the Commissioner considers that there was an upward tendency elsewhere, though this does not appear in the tabilar statements. Indeed, the Commissioner might with advantage test these returns generally, as they do not seem altogether worthy of trust, and the system of entering a daily rate for some districts, a monthly rate for others, is objectionable: there is always a doubt whether the daily rate refers to men hired for odd jobs, and therefore receiving somewhat more than those in regular employment.

4. Mr. Kemble hardly notices the scarcity which affected a part of the division or the measures of relief adopted, though Scarcity and relief. these constituted the characteristic features of the year's administration. Almost the only reference to the subject consists in a quotation of the views of Mr. Bourdillon and Mr. Grierson, that the high prices of the season were artificially caused by combination among the mahajans, and an opinion expressed by the latter Collector that a mistake was made in preventing local officers from endeavouring to lower prices by threatening to import rice on behalf of Government. Some local and temporary effect may probably have been produced by such combinations, presumably with the result of lowering prices in the end, just as much as they were raised at

5. The outturn of indigo is entered as 55,437 maunds, which is below the average. The opium yield was also deficient. It is not stated how the information given as to the quantity manufactured in the case of sugar, saltpetre, tobacco, paper, blankets, and silk was obtained, and these returns are always of very uncertain value. The statistics of trade, also, must be taken as approximate only, except those relating to Nepal, which were arrived at by actual registration on the frontier. As to these the Commissioner remarks that—

"The increase is most noticeable under the exports, as I find that the quantity of food-grains, pulses, &c., and the number of hides, small skins, and cattle of sorts which left the country this year is nearly double what was reported last year. It is remarkable that, notwithstanding the increase in the export of food-grains, the quantity imported also increased. There is a large decrease in exportation under the table of 'things valued,' due to the absence of an important item of diamonds, valued at Rs. 30,10,000. Silver also fell from Rs. 9,24,866 to Rs. 3,72,000. This of course is a special case. Owing to political changes some of the rich members of society probably found it expedient in the year 1888 to remove their valuables to British India.

"The value of clothing imported into the country fell last year to Rs. 15,47,074 from Rs. 22,43,952. To make up for this there was a large increase under head 'Other things.' One item of imports, 120,000 bricks, entered last year is not found in the returns this year."

The year was marked by some increase in cognizable offences, the returns showing 28,383 cases in the calendar year 1889, against 25,575 in 1888. The excess is Police and crime. attributed to the high prices current at the beginning of 1889. The Lieutenant-Governor regrets to find that the Commissioner and Magistrates deprecate the prosecution under section 211, Indian Penal Code, of those who wilfully bring false cases against others, on account of the time which such proceedings occupy, the uncertainty of their result, and on the allegation that the only harm done by most of these false cases is that they give unnecessary trouble to the police. False accusations frequently cause, and are almost always intended to cause, great injury to the persons named or indicated as accused, and no pains requisite for the purpose can be too great to suppress a practice which does so much harm and brings so much discredit upon the administration. It is not, however, necessary to rely wholly upon prosecutions for discountenancing such charges: every improvement in the magistracy and the police which renders investigation more prompt and efficient, or brings superior judgment to bear on the evidence tendered, has its effect in deterring the malicious from the attempt to use the forms of justice as a means for indulging their private malice. False charges will always be most numerous where the authorities are least able to discriminate them from true.

7. The collection of the land revenue, including the rent on Government estates, was not satisfactory, amounting to 93.8 per cent. on the total demand, and the deficiency was greatest in Patna, which is not a district classified as suffering from scarcity during the year. The Lieutenant-Governor hopes that the Commissioner will give his particular attention to the subject. His remark that the system adopted in Sarun of refusing to accept land revenue after the latest day fixed, where default has become habitual, entails hardship "if the towji accounts are not very accurately kept" is not understood. There should not be, and it is believed there is not, any inaccuracy whatever in the towji accounts. On this subject a special

report will be requested. The system of transmitting revenue by postal moneyorder, Mr. Kemble states, "is increasing in popularity, the sum remitted being Rs. 2,63,269 by 25,832 orders: in the preceding year Rs. 1,45,897 were remitted by 25,832 orders." In regard to the relation between landlord and tenant, the Commissioner reports three disputes, two of which are being settled by the special procedure for survey and record of rights provided in the Bengal Tenancy Act, while the third should, in his opinion, be settled in the same way. He also refers to unfavourable mention of the working of the bhaoli system in, Gya. "Looking at all these reports," he observes, "I can find nothing which would justify me in reporting that the relations between landlord and tenant were unsatisfactory. I do not think that we ought to look for less selfishness in a Gya zemindar than we find among the rest of mankind." It is evident that the passing of the Bengal Tenancy Act has not been followed, as was anticipated in some quarters, by the disturbance of the outward quiet which has generally characterised the relations of the various agricultural classes in Behar, and it is doubtless gradually preparing the way for a better system by introducing a record of the amount of rent due in each case, and affording protection to both landlord and tenant. But it has been proposed to make this remedy more speedy and complete in its operation by a general survey and record of rights in the division wherever rents are at present uncertain, as they seem to be nearly everywhere. The proposal was postponed last year on account of the failure of crops, and its adoption in the near future is now under the consideration of Government.

8. In the number of schools and of students there has been some increase, and female schools in particular have multiplied from 203 to 236, and their students from 3,569 to 3,995. The Lieutenant-Governor is also glad to observe that more Mahomedan boys are now under instruction. In Sarun Mahomedan students have almost doubled during the last nine years.

9. Mr. Kemble reports well regarding all the District and Local Boards, Mu-District Boards in his division. He writes:nicipalities, and Zemindars.

"The members take an intelligent interest in whatever subjects are laid before them at meetings, and in some districts, especially Sarun and Durbhunga, have worked well on sub-committees—auditing accounts, preparing bye-laws, supervising the plans and estimates of the District Engineer, and in looking after the schools. I may apply the words of Mr. Bourdillon to all the districts, and state that the functions of the Boards in their corporate capacity are merely confirmatory, consultative and legislative, and in discharging those duties and serving on sub-committees they render the district officer much help. More than this cannot be expected of them. In no district, however, do they take any very active part in executive matters, which are, as a rule, left to the Chairman and District Engineer. Where Europeans are numerous, however, much assistance is rendered in keeping up the

roads.
"Though the District Boards cannot be pronounced a great success, they are not a failure.
"Though the District Boards cannot be pronounced a great success, they are not a failure. As time goes on, it is to be hoped that they will not leave executive matters so much to their Chairman, and that they will exercise more and more real control over the expenditure of the funds entrusted to them.

"The example set by some of the indigo-planters is sure to work good.
"The Durbhunga Board seems to have been doing some good work. The remark made about one Board in the division, that it should be happy because it has no history, applies generally to the others."

In Chupra, with Mr. Bourdillon as Chairman, much progress has been made in the direction of efficient municipal management, but the account given of the working of municipalities in the division generally is not favourable indicating, as it does, that party spirit has in some instances been carried to an extent inconsistent with efficient administration, if not with the maintenance of the public peace. The Commissioner's remarks on this head will be further considered in the Municipal Department of this Government.

10. The Lieutenant-Governor notices with satisfaction the Commissioner's reference to the good work done by the Planters Association in settling quarrels between the planters and their ryots. The existence of this Association is a source of safety to the peace of the district, and is of material assistance to the

Government.

11. Sir Steuart Bayley has to acknowledge the justice of the complaint made by the Commissioner of Patna in common with most other Commissioners as to the inadequacy of the staff to cope with the increasing work of the districts. He trusts that when the next provincial contract is settled it will be found

possible to remedy to some extent the unquestioned dearth of officers.

12. The thanks of this Government are given to Mr. Boxwell for his administration of the division during the year, and in particular for the energy with which, assisted for a time by Mr. Henry, he discharged the onerous duties imposed on him by the distress in North Behar. In Mr. Beadon the Government has lost a most zealous and devoted officer, whose premature death is deeply regretted by the Lieutenant-Governor. The Collectors generally, including several who officiated for short periods only, did so well that it is almost invidious to select any for special mention, but the names of Mr. Quinn, Mr. Grierson, Mr. Power, and Mr. Bourdillon cannot be altogether passed over. The remarks of the Commissioner under this head will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

1

P. NOLAN, Secretary to the Govt. of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE COMMISSIONERS OF THE PORT OF CALCUTTA FOR THE YEAR 1889 90.

No. 198T-Marine.

GOVERNMENT OF BENGAL, MARINE DEPARTMENT. RESOLUTION.

Dated Darjeeling, the 31st October 1890.

READ—
The Administration Report of the Commissioners of the Port of Calcutta for the year
1889-90.

THE Administration Report of the Commissioners for the year which ended on the 31st of March last was not received by the Government until the 17th of this month The Lieutenant-Governor hopes that in future years the Commissioners will be able to arrange for the more punctual submission of this report.

2. Excluding the advances made to the Commissioners by the Government in respect of the Kidderpore Dock Works, the gross debt of the Commissioners on the 31st of March 1890 amounted to Rs. 1,20,36,401, distributed as follows:—

| | debt not r | bt due to the | ie U | THE RESERVE OF THE RESERVE OF | ••• | *** | 42,71,401 17,65,000 |
|----------|--------------|---------------|------|-------------------------------|-----|-----|------------------------|
| 44 p | er cent. del | penture loar | of | 1881 | | | 10,00,000 |
| | ditto | ditto | of | 1883 | | | 20,00,000 |
| 4½ 5½ | ditto | ditto | of | 1886 | *** | | 30,00,000 |
| | | | | Total | | | 1,20,36,401 |

The debt to Government was reduced during the year by Rs. 1,29,534, and for the repayment of the debenture loans a sum of Rs. 1,24,000 was set aside, making the total amount at credit of the sinking fund account on the 31st of March 1890 Rs. 6,51,000.

3. The cost of the works constructed or acquired by the Commissioners and the sources from which the expenditure has been met, are shown in the subjoined table:—

| Cost of works constructed or acquired by the | Commissioners. | Sources from which the expenditure ha | s been met. |
|--|----------------------|---|-------------|
| | Rs. | | Rs. |
| Expenditure on jetties and appliances for sea-going vessels to the end of | 83,42,943 | By loan from Government (repayable) | 60,25,100 |
| March 1890 Expenditure on inland vessels' wharves, landing stages, tramway, | | By loan from Government (not repayable) | 17,55,000 |
| &c., on the Calcutta bank of the river Expenditure on inland vessels | 61,89,543 | By loan on 4½ per cent. debentures of 1881 | 10,00,000 |
| wharves, landing-stages, tramway, &c., on the Howrah bank of the | 16,20,605 | By loan on 4½ per cent. debentures of 1883 | 20,00,000 |
| Expenditure on dock for docking and repairing vessels, &c | 6,25,484 | By loan on 5½ per cent. debentures of 1886 | 30,00,000 |
| vessels, Harbour Master's boats, light ships, survey vessels, &c | 38,21,321 | Contribution from Government towards purchase of land for new | |
| Jetties Reserve | 99,244 | river-side road | 74,584 |
| Jetty Insurance Fund | 50,000 | Contribution from Government for landing-stage at Priusep's Ghat | 10,000 |
| Expenditure on Fund | 3,64,250 1,99,995 | Contribution from Government for Port approaches block | 7,19,903 |
| Port Approaches | 1,88,880 | From sale of surplus land | 4,09,367 |
| Depreciation Fund Debenture Loan | 50,000 | From revenue derived from works since formation of Trust | 69,11,139 |
| Sinking Fund | 6,51,000 | | |
| Total | 2,19,14,385 | Total | 2,19,14,386 |

4. On the 31st of March 1890 the advances received from the Government on account of the Kidderpore Dock Works amounted to Rs. 1,73,39,038. On the same date the expenditure on these works had reached Rs. 1,70,65,321. Towards the close of the year the Government received from the Commissioners a revised estimate of the cost of constructing the Tidal Basin and Dock No. 1. This estimate amounted to Rs. 2,53,38,737, and it has been raised by the Government of India to Rs. 2,64,01,605 on the assumption that the Docks will not be completed and earning revenue until the commencement of 1892-93. The accidents which have recently happened on the works will necessitate additional expenditure, but the Lieutenant-Governor hopes that the Docks will be completed before the end of next year, and that the total expenditure will not exceed the estimate as revised by the Government of India.

5. In February last the Government appointed a Committee to consider and advise on the arrangements to be adopted for the working of goods traffic into and out of Calcutta after the completion of the Kidderpore Docks. Owing, however, to the inability of the Commissioners to furnish information asked for by the Committee, the enquiry could not be completed. On receipt of the Committee's preliminary report, the Commissioners were called on, in a letter

dated the 1st of May last, to furnish the Government with an estimate-

(a) of the annual charges which will have to be met by the Port Trust

after the completion of the docks; and
(b) of the revenue that will be obtained in respect of the several services which the Trust will perform after the completion of the Docks, and from any other sources.

This estimate has not yet been submitted. When it is received, the Com-

mittee will be asked to resume its deliberations.

6. The year 1889-90 opened with a balance of Rs. 2,86,308. The receipts during the year amounted to Rs. 26,82,730. The expenditure of the year amounted to Rs. 25,90,391, including Rs. 2,24,689 credited to the sinking funds and Rs. 96,276 spent on new works. The year closed with a credit balance of Rs. 3,78,647.

7. The receipts on capital account during the year amounted to Rs. 1,89,000, including an opening balance of Rs. 14,883 and the sum of Rs. 96,276 contributed from revenue, the balance having been taken from depreciation funds. The expenditure amounted to Rs. 1,83,302, leaving a

closing balance of Rs. 5,698.

8. Materials and stores to the value of £27,826-9-6 were procured by the Commissioners from England during the year through their Agent in London, and contracts to the value of Rs. 1,72,743-12-9 were made locally for materials and works. The Lieutenant-Governor observes that flooring stones, estimated to cost about Rs. 2,40,000; are being obtained from the British India Steam Navigation Company, but that no formal contract has been made, as the stores are supplied according to indents received from time to time. His Honour is of opinion that this arrangement should have been embodied in a formal contract and submitted for the sanction of the Government.

9. The receipts at the jetties amounted to Rs. 11,73,907, being Rs. 33,977 over those of the previous year; but the increase of revenue was derived entirely from the petroleum wharf, where the receipts amounted to Rs. 1,58,940. There was a considerable falling off in the receipts from exports, which were less than those realized in any year since 1881-82. The jetties were not worked at their full power. In 1887-88 the number of vessels berthed was 232, and the average length of their stay at the jetties was 9.9 days. Last year only 203 vessels were

berthed, and they occupied the jetties on an average for 10 days each.

10. The imports of petroleum have increased. Last year 3,726,670 cases were imported as compared with 2,380,652 cases in the previous year. Batoum oil, of which 534,880 cases were imported in 1888-89, does not appear to have found favour with consumers. Some of this oil which was imported in January 1889 still remained at the depôt on the 31st of March 1890. There were no imports of Batoum oil in 1889-90.

11. At the close of the year the extension of the Eastern Bengal State Railway to Budge-Budge was completed. The construction of this line was undertaken by the Government on representations made by the Commissioners and the Bengal Chamber of Commerce of the danger to which the shipping in the port was exposed by the transport of petroleum by water from the depôt at Budge-Budge to the Calcutta and Howrah wharves. After the opening of the railway for traffic, the Commissioners, however, advised that it was unnecessary to place any restrictions on the transport of petroleum by water within the limits of the port. The Lieutenant-Governor is unable to reconcile the views now held by the Commissioners with those put forward by them and the Bengal Chamber of Commerce when they advocated the construction of the line or with the experience of the past, and the question of placing restrictions on the transport of petroleum by water is still under consideration. The Petroleum Act, 1886,

and the rules made under it have come into force since the close of the year.

12. The total quantity of tea brought into Calcutta during the year was 101 million pounds, of which 30 million pounds passed through the tea warehouse built by the Commissioners. The receipts from the warehouse amounted to Rs. 76,455, including a sum of Rs. 17,542 which was realized by letting out the ground-floor for storing piece-goods and grain. The improvement in the receipts is satisfactory, but the tea warehouse, which, excluding the value of the site on which it stands, cost Rs. 8,51,010, has not yet become a financial success.

13. In the Harbour Master's Department, although the number of vessels which came to the port was less than in the previous year, the receipts from mooring hire show an increase of Rs. 17,931. This increase is due to the fact that many sailing vessels made long stays in port with the object of getting better freights. The Commissioners' steam-vessels earned Rs. 13,214 by towing vessels within the limits of the port.

14. There were nine accidents to vessels in charge of Assistant Harbour Masters, for seven of which the officers concerned were more or less to blame. None of the accidents caused very serious damage, and the result of the year's

working compares favourably with that of the previous year.

15. Since the close of the year, special rules for the port of Calcutta have

been made under the Explosives Act, 1884.

16. The total number of surveys made by the Engineer and Shipwright-Surveyor, including surveys of vessels belonging to the Commissioners, was 254, of which 229 were surveys of vessels and 25 of boilers and condensers on emigrant vessels. The fees levied in respect of these surveys did not cover the expenses incurred in making them. Since the close of the year the Commissioners have been relieved of the duties connected with the survey of vessels under the several Acts relating to merchant shipping, and a revised scale of fees has been adopted which is calculated to cover the expenses of

making the surveys.

17. During the year 5,886 cargo boats and 1,532 passenger boats were surveyed and licensed, the total amount realized being Rs. 29,731, including Rs. 6,957 from fines for breaches of port rules. The expense of surveying these boats was under Rs. 10,000; but when, in 1879, the duty of licensing them was transferred to the Commissioners, it was arranged, with the approval of the Government, that the fees charged would be fixed so as to bring in a sum sufficient to carry on the work efficiently and to contribute the sum of Rs. 12,000 a year towards the maintenance of the river police force. The receipts now afford a margin over and above this contribution; but, in view of the changes that may result on the opening of the Kidderpore Docks, the margin is not so large as to call for any reduction in the fees at present.

18. The receipts from the tramways amounted to Rs. 3,02,022 against Rs. 3,26,697 in the previous year, showing a falling off of Rs. 24,675. On the other hand there was an increase of Rs. 5,846 in expenditure, which amounted to Rs. 1,99,442 against Rs. 1,93,596 in the previous year. After providing Rs. 50,354 for interest on the capital expenditure incurred on the tramway, the net revenue derived by the Commissioners from this source amounted to Rs. 1,02,580 against Rs. 1,33,101 in the previous year. The falling off in the gross receipts was due to the decline in the export of grain and pulses.

19. Towards the close of the year it was brought to the notice of the Government that the charges levied by the Commissioners for the carriage of

goods on their tramways were not, as required by the "Calcutta Port Improvement Act, 1870," in accordance with a scale approved by the Lieutenant-Governor. After some correspondence with the Commissioners, they were, in a letter dated the 30th of June last, furnished with the views of the Government

of India and requested to frame and submit, in accordance with the provisions of the Calcutta Port Act, 1890," for the approval of the Lieutenant-Governor, a scale of all the charges to be made for the conveyance of goods by their tramway, due regard being had, in framing the scale, to the provisions of the Indian Railways Act, 1890. The Government has not yet received this scale from the Commissioners. The Government of India has expressed the opinion that there are grave objections to higher maximum rates being levied on the Port Commissioners' tramway for through traffic than have been fixed for commercial railways generally. The charges now levied, giving as they do a large surplus revenue, are very high, and they will have to be reduced in accordance with the principles laid down by the Government of India.

20. The expenditure of the year on surveying, buoying, and lighting the approaches to the port amounted to Rs. 4,98,424. The average annual expenditure on the port approaches during the past five years has been Rs. 4,93,558. The port approaches department has no income of its own, and the expenditure

of the past year was met from the following sources:-

| . 2,70,000 |
|------------|
| . 25,000 |
| 65,000 |
| . 50,000 |
| . 75,000 |
| 4,85,000 |
| |

With the opening of the Kidderpore Docks it will be impossible to continue to make some of these contributions, and the question of how the expenditure on the port approaches should be met will receive further consideration when the estimate referred to in paragraph 5 of this Resolution is received from the Commissioners.

21. No changes of any great importance occurred in the river channels during the year. The establishment maintained for the survey of the river

carried out its duties efficiently.

22. All the light-houses and light-vessels on the coast of Bengal were inspected towards the close of the year by the Engineer appointed by the Government of India to inspect and report on all Indian light-houses. The Engineer's report has recently been received and is now under the consideration of the Government. The lights of the approaches to the port of Calcutta require some small alterations, but are generally efficient. Mr. Douglass recommends that a light-house should be erected on the coast below False Point at the mouth of the Davy river. The advisability of having a light in this position had already engaged the attention of the Lieutenant-Governor, and the question will now be again considered.

23. The Calcutta Port Act, 1890, consolidating the several Acts relating to the Port Trust, came into force on the 1st day of June 1890. Under it the Commission is composed of a Chairman, Vice-Chairman, and five Commissioners who are appointed by the Government, five Commissioners elected by the Bengal Chamber of Commerce, one by the Calcutta 'Trades' Association, one by the Commissioners of the Town of Calcutta, and one by such body as the Government may select as best representing the interests of the native mercantile community. The Bengal National Chamber of Commerce has been

recognised as the body best representing those interests.

24. During the year the Commissioners submitted, at the request of the Government, a draft of revised port rules under the Indian Ports Act, 1890. A legal difficulty has arisen affecting some of the most important of the rules,

and they are still under consideration.

25. The thanks of the Government are due to the Commissioners for their successful management of the affairs of the Trust during the year. The Commissioners have, as in former years, had at their disposal ample resources, and while the charges made are in some cases high, the facilities which they have provided have met most of the wants of the trade of the port. With the opening of the Kidderpore Docks those facilities will be largely increased, but at the same time the charges which the Trust will have to meet will be enhanced in a corresponding degree. The construction of the Kidderpore Docks was sanctioned on the recommendations made by a Joint Committee of the Port Commissioners and the Bengal Chamber of Commerce in 1883. At that time the trade of Calcutta had shown signs of rapid expansion, and the majority of the mercantile community urged on the Government the advisability of permitting the Port Commissioners to carry out their proposals for providing increased facilities for the shipping. The subjoined table of the departures of sea-going vessels from Calcutta during the past 11 years shows that the expansion has not been so rapid as had been anticipated, and that during the past two years there has been a slight falling off:—

Statement showing the number of sea-going vessels that left the Port in 1889-90 compared with similar returns for the previous 10 years.

| T SAIS | | | | THUS BY | DEF | ARTURES. | | | |
|-------------|-----------|------------------|--------|-----------|------------------|-----------|-----------|------------------|-----------|
| and ea ered | | Numb | ar. | G | ross tonnage. | 41, 10 | 1 | Net tonnage. | |
| YRAR. | Steamers. | Sailing vessels. | Total. | Steamers. | Sailing vessels. | Total. | Steamers. | Sailing versels. | Total. |
| 1879-80 | 434 | 460 | 895 | 845,016 | 575,425 | 1,420,441 | 548,659 | 560,058 | 1,108,717 |
| 1880-81 | 510 | 505 | 1,015 | 1,014,483 | 616,788 | 1,631,271 | 669,850 | 598,860 | 1,268,710 |
| 1881-82 | 597 | 461 | 1,058 | 1,232,461 | 541,623 | 1,774,084 | 822,072 | 525,525 | 1,347,59 |
| 1882-83 | 619 | 522 | 1,141 | 1,345,105 | 634,002 | 1,979,107 | 889,142 | 615,316 | 1,504,45 |
| 1883-84 | 604 | 469 | 1,073 | 1,379,295 | 580,531 | 1,959,826 | 908,989 | 562,311 | 1,471,300 |
| 1884-85 | 528 | 305 | 923 | 1,230,284 | 514,987 | 1,745,271 | 802,839 | 497,919 | 1,300,758 |
| 1885-86 | 582 | 387 | 969 | 1,351,059 | 520,877 | 1,871,936 | 883,152 | 503,545 | 1,386,697 |
| 1886-87 | 647 | 415 | 1,062 | 1,518,238 | 597,099 | 2.115,337 | 986,359 | 575,796 | 1,562,15 |
| 1887-88 | 700 | 361 | 1,061 | 1,710,435 | 534,160 | 2,244,595 | 1,118,955 | 515,622 | 1,634,577 |
| 1888-89 | 722 | 312 | 1,034 | 1,769,733 | 470,711 | 2,240,444 | 1,154,028 | 454,628 | 1,608,656 |
| 1889-90 | 728 | 290 | 1,018 | 1,762,119 | 440,700 | 2,202,819 | 1,144,692 | 426,084 | 1,570,776 |

The Lieutenant-Governor hopes and believes that the check which the trade of the port of Calcutta has sustained is only temporary, but the present conditions require that rigid economy should be observed in administering the affairs of the port, and that the burdens should be distributed in an equitable manner, so that every branch of trade may have the opportunity of expanding without being subjected to restrictions of an artificial kind.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E., Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

• Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 8th November 1890.

| N | 0. | District and c | | it | | Rainfall at Sudder Stationin inches. | |
|-----------------|-----|---------------------------------|---------|------|-----|---|--|
| BEN | GAI | . Western Dû | atai at | | 1 | | The second of th |
| 1 | 1 | Burdwan Culna | Nov. | | '90 | 0.20 | Weather—sessonable. Prospects of crops good. Fields are being prepared for rabbi crops. Prices of common rice:— |
| 1 | | Cutwa | | | *** | 0.80 | Burdwan 161 Culua 15 per rupee. |
| 1 | 2 | Bankoora | | 8, | '90 | Nil | Ranigunge 17 Weather—fine, but occasionally cloudy; mornings and evenings cool. Prospect of amun rice continue good. Ploughing for rubbi proceeding. Common rice selling at 20 seers per rupee both at Sudder and Bissenpore. |
| JIAN. | 3 | Birbhum Rampore Hau | | 8, | 90 | 0·10 0·20 | Weather—seasonable with occasionally cloudy weather. Crops in excellen condition. Price of rice 16½ to 19 seers per rupee. |
| BURDWAN DIVE. | 4 | Midnapur | | 8. | '90 | Nil | Weather—cloudy and variable; very warmat noon. Paddy crop doing well- Lands being got ready for rabbi crops. In Contai prospects fair except in places submerged. Prices of common rice:— |
| Bul | | | | | | | Sudder Srs 15 |
| | 18 | | | | | | Tumlook 17½ per rupee. Ghatal 16 Contai 18 |
| 1 | 6 | Hooghly Serumpore | | 8. | '90 | Nil 0.03 | Cold weather setting in. Prospects of amus continue good. Potatoes and kale are being sown. Prices of common rice: |
| | | | | | | | Sudder 14 Serumpore 14 Jehntabad 161 |
| 1 | | Howrsh Central Dis | oriot | | '91 | Nil | Weather—seasonable Amun crop doing well. Prospects of harvest satisfactor Price of coarse rice 14 seers per rupes. |
| 1 | 6 | 24-Perghs. | Nos | . 8, | *90 | 0.02 | Weather—seasonable. Prospects of crops good. Yield of amun rice estimat 13 annas. Ploughing for winter crops going on. Common rice sellist from 13 to 15 seers per rupee. Medical relief being given to the people in the flooded tract. |
| HAN. | 7 | Nuddea | n | 8, | '90 | 0.20 | Weather—sesonable. Prospects of crops fair. Sowing of winter crops going on. Price of rice continues much the same. |
| RESIDENCE DIVE. | 8 | Khoolns Satkhirs | • | 8, | '90 | Nil 0.48 | Weather—seasonable. Prospects of the amus crop continue favourable exces in the flooded area. Lands are being prepared and winter crops are being propared. |
| PR | 9 | 1essore | 24 | 8, | .80 | Nil | Weather—seasonable. Prospects of amun good. Sowing of winter crogoing on. |
| 1 | 10 | Moorshedabad | ·. | 8. | 90 | Nil | Weather—seasonable Haimanti rice in ear. Rubbi crops being sown Prospects favourable. |
| 1 | 11 | Dinagepur | | 8, | •90 | Nil | Weather—seasonable. Prospects of crops continue good. Price of rice we changed. |
| | 12 | Rajshahye Nattore Nowgong | | 8, | '91 | 0.95 1.62 0.30 | Weather—fair. Steeping and gathering of jute almost finished. Ganja crothriving. Sugarcane and winter paidy doing well. Lands being prepare for rubbi crops. Some transplanted winter paddy on low lands suffered in the subdivision of Nowgong. |
| IVN. | 13 | Rungpur | | ١ | | | Report not received. |
| RAJSHAHYR DIVE. | 16 | B gra Sherpur Nowkhilla | ., | 8. | 90 | 0.68 0.59 0.37 | Weather—seasonable. Rain fell on the 1st instant. All crops promise well and preparations for the spring crops are going on. Common rice is selling at 18 seers a rupee. |
| 2 | 15 | Pubna | | 8, | '90 | Nii | Weather—fine and cool. Prospects of standing crops good. Prices of foot grains remain stationary. |
| | 16 | Darjeeling | •• | 8, | '90 | Nil | Weather-fine. Prospects good, Winter rice and marua doing well in the |
| 1 | 17 | Julpigoree | | 8, | 190 | Nii | Weather—sensonable. Steeping of jute nearly completed. Prospects of crocontinue good. Price of rice remains stationary. |

| | lo. | District and return | | of | Rainfall at Sudder Station in inches. | |
|--|------|----------------------------|--------|---------|--|---|
| E | NGAI | -concluded. | | | 10 m (a) | |
| | | Eastern Di | atrict | | | |
| | 18 | Daces | Nov | . 8, '9 | Nil | Weather—bright, and cool at night. Asvini paddy being harvested. Amu paddy doing well. Cultivation going on for winter crops. Common ric sold at from 13\frac{1}{2} to 16 seers per rupee. |
| Dava Dire. | 19 | Furreedpur | | 8, 19 | Nil | Weather—seesonable. Prospects of amun paddy fair. Rubbi crops are bein sown. Common rice selling at 14 seers per rupee. |
| DAC. | 20 | Backergunge | ,, | 8, '90 | Nil | Weather—seasonable. State and prospects of crops good. Common rice sellin at about 13 seers per rupee. |
| | 21 | Mymensingh | | 8, '9 | 0.05 | Weather—seasonable; days still somewhat warm, but nights cool. Prospects amun continue good. Jute nearly harvested. Common rice sells at 1 seers per rupee. |
| | 22 | Chittagong | | 11, '9 | 0.05 | Weather—seasonable. Prospects of amun crop favourable. Prices stationary |
| CHILITAGONG DIAM | 23 | Noakholly | | 8, 19 | Nil | Weather—seasonable. Amun crop maturing. Prospects good. Rubbi crop being sown. Price of rice stationary. |
| Current | 24 | Тіррегив | . " | 8, '9 | Nil | Weather—cool and sun shining. Amus prospering. Mustard and othe winter crops are being sown. Prices stationary. |
| | 25 | Chittagong Hill Tracts. | | 6, '9 | 0-3 | Weather—seasonable. Harvesting of jum paddy nearly complete. Cotton pods; gathering commenced. Plough-paddy in flower. Lands being ploughed for mustard. Common rice being sold at 11 seers 62 chittacks per rupee. |
| 101 | IAR, | Hill Tippersh | | | | Report not received. |
| 1 | 26 | Patns | Nov | . 8, '9 | Nil | Weather—hot in the day and cool at night. Prospects of paddy continue good Sowing of rubbi crops in progress. Pea, gram and all other rubbi crops already sown have germinated well. Prices of food-grains falling to some |
| | 27 | Gya | | 8, '9 | Nil | extent. Wen'her—days clear and nights cold. Katika and karhani paddy bein harvested in places. Sowings of rubbi and poppy in progress throughout the district. Prospects favourable. Prices falling. |
| | 28 | Shahabad | | 8, '90 | Nil | Weather—cool and clear. Prospects of all crops continue favourable. |
| 1 | 29 | Durbhonga | | 8, '90 | Nil | Weather—getting cool. Rice crop in ear and doing well. Sowing of rube crops progressing. Rahar and tobacco look promising. Price of commo rice falling. |
| | 30 | Moznilerpus | | 8. '90 | Nil | Weather—seasonable. Rice doing very well. Ploughing for and sowing rubbi crops proceeding everywhere. Those crops which have already ge minated are looking very healthy. Poppy is also being sown. |
| The state of | 31 | Sarua | | 8, *9 | Nil | Weather—fine and clear. West winds. Heavy dews at night. Rice, when there is any, very fine. Rubbi prospects very good. Linseed sowing normal. |
| 100 | 22 | Синирагия | ,, | 8, 290 | Nil | Weather—sessonable. Rubbi sowings have commenced. Paddy in ear and doing well. Poppy sowings being commenced, and about 1½ annas estimate as having been sown. The crop promises to be somewhat late on account of the crop profiles. |
| Service of the servic | 33 | Mongnyi | | 8, '90 | Nil | the excess moisture. Weather—seasonable. Rubbi sowings in progress. Winter rice doing well. |
| | 34 | Bhagulpore | 'n | 8, '90 | Nil | Weather—clear; mornings and evenings with heavy dew. Winter rice doin well. Cultivation for rubbi crops progressing. |
| | 85 | Purnesh | n tu | 8, '9 | Nii | Weather—fine with cold nights. Prospects favourable. Preparation for rub crops going on. Kurthi and other crops sown doing well. |
| THE PERSON NAMED IN | 36 | Maldah Shibgunge | * | 8, '90 | 0·03 0·12 | Weather—seasonable. Prospects of winter rice crop favourable. Kalai thriving and in some places flowering. Sowing of other rabbi crops in progress and those already sown have germinated well. Locusts have visited the district in great numbers. Price of rice stationary. |
| | 37 | Southal Perghs, | * | 8, *30 | 0.11 | Weather—seasonably cool. Prospects of rice crop excellent. Rubbi sowing still going on. Harvesting of early rice commenced, and the outturn more than average. |

| 10 TO | No. | District an retur | | of | Rainfall at Sudder Station in inches. | |
|---|------|-----------------------------|--------|------|--|--|
| R | SSA | 566 | | | | |
| | \$8 | Cuttack | Nov. | 8, 1 | 00 1.79 | Weather—seasonable. Rain has somewhat damaged the <i>rubbi</i> crop in the Sudder subdivision, especially in Banki. General prospects good. |
| | 89 | Pooree Kboorda Banpur | , | 6, ' | 1:48 | Weather—cloudy. Laghu sarad (early winter rice) is being harvested. Barsarad (late winter rice) coming into ear. Kalai and arkar have suffere to some extent from the late rain. Price of common rice from 21 to 27 seer |
| - | 40 | Balasore | n | 8, ' | 2.25 | per rupee. Weather—seasonable. Early winter rice crop is being harvested. |
| H | ATC | NAGPORE. | | | | |
| | Sout | h-West Frontie | r Agen | cy. | 1 100 | |
| - | 41 | Hazaribagh | Nov. | 8, 4 | 00 Nil | Weather—seasonable. Sky cloudy throughout the week. Reports from all purts of the district very favourable. |
| CHOIR MAGICAN DIVE | 42 | Loharduggs | ," | 8, 4 | 00 Nil | Weather—cloudy. Rubbi being sown here and there, but rain wanted. Har vesting of winter rice commenced. Some damage reported to have bee caused to this crop by locusts. No material change in prices. |
| CHOIL | 43 | Singbhoom | | 8, ' | 00 Nil | Weather—seasonable; cloudy. Crops everywhere satisfactory. |
| Tori | 44 | Manbhoom | . , | 8, * | 90 Nil | Weather—cloudy in the morning, warm in the daytime. Reaping of uplan paddy has commenced. All other crops doing well. |

Published for general information.

CALCUTTA; REVENUE DEPT., The 11th November, 1890. P. Nolan, Secy. to the Goot, of Bengal.

Secy. to the Goet. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

| | | | | 三 特值 | STOO | STOCK IN HAND AS COMPILED ON | COMPILED ON- | | | | | | |
|---|--|---|--|--|--|--|---|--|--|---|---|---|--|
| NAMES OF MARTS. | 1st week of Nov. 1889. | 1st week of Dec. 1889. | 1st week of Jan. 1890. | 1st week of Feb. 1890. | 1st week of Mar, 1890. | 1st week of April 1890. | 1st week of May 1890. | 1st week of June 1890. | 1st week of July 1890. | 1st week of August 1890. | 1st week of Sept. 1890. | 1st week of Oct. 1890. | 1st week of Nov. 1890. |
| | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. |
| Ballachatta | 4.54,000 | 2.96,500 | 3,00,000 | 5,48,000 | 9,81,100 | 15,22,500 | 10,94,000 | 9,85,500 | 7,54,000 | 6.42,000 | 6,41,000 | 4,10,000 | 3,58,590 |
| Gohadangs | 67,400 | 55,400 | 63,400 | 83,900 | 1,02,500 | 1,12,560 | 86,600 | 84,700 | 74,900 | 67,800 | 73.300 | 65,800 | 70,400 |
| Chithore, Golsbaree, Coomer-tooly, Hatthholy, and Chipy Ghat. | 6,83,300 | 6,86,000 | 6,00,400 | 6,98,900 | 6,83,800 | 6,91,600 | 6,37,800 | 4.79,200 | 4,96,100 | 5,10 500 | 6,07,500 | 6.45,100 | 6,29,700 |
| Pathuriachatia, Posta, and Jorabagan, | 8,000 | 3,000 | 4,000 | 5,000 | 4,000 | 3,000 | 4,000 | 3,500 | 000'9 | 3,000 | 4.000 | 6,000 | 4,706 |
| Tallygunge, Chillah, Kidderpore, and Moonshigunge, | 905.29 | 68,100 | 82,750 | 98,100 | 1,21,500 | 1,26,550 | 1,32,900 | 1,19,450 | 1,04,700 | 909'96 | 64 200 | 1,09,200 | 1,13,700 |
| 11 Minor Barars (cetimated) | 2,40,006 | 2,40,000 | 1,40,000 | 2,40,000 | 2,40,080 | 2,46,000 | 2,40,000 | 2,40,000 | 2,40,000 | 2,40,000 | 000'05'3 | 3,40,006 | 2.40,008 |
| Other retail shops, 3,129 in number (estimated). | 1,50,000 | 2,50,000 | 2,50,000 | 2,50,000 | 2,50,000 | 1,50,000 | 2.50,000 | 2,50,000 | 2,50,000 | 2,50,000 | 1,56,000 | 3,50,000 | 2,50,000 |
| Boldysbatty, Nowabginge, Shiddressur, and Chander- nagore, | 18,410 | 14,980 | 28,425 | 19,608 | 33,469 | 31,225 | 19,869 | 28,762 | 45,879 | 55,887 | 45,451 | 47,075 | 31,012 |
| Inc. | 17,81,310 | 15,13,080 | 15,68,975 | 18,43,506 | 22,66,369 | 28,77,375 | 23,64,669 | 211,85,112 | 19,69,579 | 18,65,187 | 18,55,481 | 17,67,178 | 17.02,013 |
| On Rallway premises on both sides of the river. On bosts un- fusissiuners re- loaded By Canal returns | 14.011 (om 346 Nov. 1884.) 21.334 (1et to 3rd Nov. 1889.) (1st to 3rd Nov. 1889.) | (on 3rd Dec. 1889, 1880, 1881, 1881, 1881, 1881, 1881, 1881, 1881, 1881, 1881, | 28,007 (on 3rd Jan. 1890.) (1,641 (2nd to 4th Jan. 1890.) (2nd to 4th Jan. 1890.) | 28,385 (on Srd Feb., 1890.) 8,796 (1st to 3rd Feb. 1890.) 2,42,044 (1st to 3rd Feb. 1890.) | 47,888 (on 3rd Mar. 1890.) (1st to 3rd Mar. 1890.) 1,34,547 (1st to 3rd Mar. 1890.) | 28,996 (on 3rd Apl. 1890.) 37,745 (1st to 3rd Apl. 1890.) 68,619 (1st to 3rd Apl. 1890.) | 28,633 (on 3rd May 1890.) 30,197 (1st to 3rd May 1890.) 23,975 (1st to 3rd May 1890.) | 11,927 (on 3rd June 1890.) 24,736 (18t to 3rd June 1890.) (18t to 3rd June 1890.) | 15,533 (on 3rd July 1890.) 23,331 (1st to 3rd July 1890.) 22,338 (1st to 3rd July 1890.) | 2.871 On 3rd August 890.) 54.778 (1st to 3rd August 1890.) 18.546 (1st to 3rd August 1890.) | 15,854 (on 3rd Sept. 1890.) 27,167 (184 to 3rd Sept. 1890.) 32,465 (184 to 3rd Sept. 1890.) | (on 3rd October 1890.) S2,395 (18t to 3rd October 1890.) 23,494 (1st to 3rd October 1899.) | 18,544 1890.) 1890.) 1890.) (1st to 3rd Nov. 1890.) 88,008 (1st to 3rd Nov. 1890.) |
| Grand total of Stocks | 17,81,863 | 15,49,943 | 17,90,438 | 11,81,581 | 25,65,503 | 29,98,735 | 24,43,474 | 22,45,752 | 29,30,851 | 19,40,882 | 19,28,968 | 18,34,189 | 17,74,009 |
| Probable stock available for exportation by sea. | 72 lakhs | 5 lakhs | . 78 lakbs | 11 lakbs | 149 lakhs | 19§ lakhs | 14 lakhs | 19 lakbs | 9ệ lakhs | 9 lakhs | 8‡ lakhs | 72 lakhs | 7t lakhs |

STATISTICAL DEPARTMENT,
The 8th November, 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

| | | | | | | | | 4 | 15 | | | | | | | | | Jowa | R OR C | HOLI |
|---------|--------------------|-----------------|----------------|------|---------------------------------------|-----------------|---------------------------|---------------------------------------|----------------|--------------------|---------------------------|---------------------------------------|------|-----------------|----------------|---------------------|---------------|-----------------|---------------------------|---------------------------------------|
| | | | WH | BAT. | | В | ARLEY. | | F | TIOE | , BEST | BORT. | | RICE | , com | MON | | (Sorgi | um V | elgare |
| Number. | DISTRICTS. | Present return. | Vart pracading | ıra. | Corresponding return of last year. | Present return. | Next preseding return. | Corresponding return of last year. | Descent return | Treservine reserve | Next preceding return, | Corresponding return of last year. | | Present return. | Next preceding | Oceanon ding return | of last year. | Present return. | Next preceding return. | Corresponding return of last year. |
| | BENGAL. | 300 | | | | | | | . ; | | | 7 | 1 | | | 7/the | 46 | | | |
| W | Testern Districts. | s. Ch | . S. | Ch. | S. Ch. | 8. (h) | s. Ch. | N. Ch. | s (| Ch | S. Ch. | S. Ch | S. | Ch. | s. c | h. 18. | Q6 | s. Ch | N. Ch | 8.0 |
| | | 7 | | | | | | | 19 | | | | | | 1 | | 1 | | | |
| 1 | Burdwan | 14 0 | | | 13 4 | - | - | | 12 | | 12 6 | 11 10 | 16 | 9 | | | 10 | | | |
| 2 | Bankoora | 14 0 | 15 | 0 | 13 8 | 18 0 | 20 0 | 14 8 | 17 | 0 | 15 0 | 15 0 | 19 | 0 | 18 (| 18 | 0 | | | 1 |
| 3 | Beerbhoom | 17 | 17 | 4 | 15 0 | | | | 13 | 8 | 13 8 | 12 0 | 16 | 8 | 16 | 3 15 | 0 | | | - |
| 4 | Midnapore | 10 8 | 3 10 | 8 | 13 8 | | | | 13 | 0 | 11 0 | 12 8 | 16 | 12 | 15 (| 14 | 4 | | | |
| 5 | Hooghly | 13 (| 13 | 0 | 13 0 | | 0.00 | | 8 | 0 | 8 0 | 8 0 | 13 | 0 | 13 (| 12 | 0 | | | |
| | Howrah | | | | | | | | 10 | 0 | 10 0 | 9 8 | 14 | 0 | 13 1 | 12 | 8 | | | |
| | Central Districts. | | | | | | | | | | | | | | | | | | | |
| | Calcutta | 13 | 6 | 3 4 | 13 8 | 17 15 | 17 11 | 16 10 | 8 | 12 | 8 14 | 7 15 | 13 | 1 | 12 1 | 1 12 | 11 | | | 15 1 |
| 6 | 24-Pergunnahs | 14 | 0 1 | 4 8 | 14 (| 20 0 | 19 0 | 17 0 | 8 | 0 | 8 0 | 7 8 | 15 | 0 | 14 | 0 14 | 0 | 134 | | |
| 7 | Nuddea | 15 | 4 1 | 5 4 | 14 1 | 16 0 | | 16 0 | 11 | 6 | 11 10 | 10 5 | 1 13 | 10 | 13 1 | 0 19 | 6 | | | |
| | | | | | | | | | | | | | | | | | | | | 18 |
| 8 | Khoolna | | | | | | | | 12 | | 12 0 | 11 0 | | | 14 | 4 13 | 5 | | * | |
| 9 | Jessore | 13 | 0 1 | 3 0 | 13 4 | | 7 | - | 11 | 0 | 11 0, | 9 0 | 13 | 0 | 13 | 0 12 | 0 | | | |
| 10 | Moorsbedabad | 16 | 0 1 | 6 0 | 16 (| | 1.5 | - | 10 | 0 | 10 0 | 10 8 | 16 | 6 | 16 | 0 15 | 0 | | - | |
| 11 | Dinagepore | 15 1 | 0 1 | 5 10 | 14 8 | 21 12 | 14 8 | 19 0 | 13 | 4 | 14 6 | 12 0 | 16 | 12 | 16 1 | 3 16 | 12 | | | |
| 12 | Rajshahye | 16 | 8 1 | 6 8 | 15 (| 19 8 | 19 8 | 19 8 | 12 | 12 | 12 0 | 9 12 | 15 | 0 | 13 1 | 4 12 | 12 | | | |
| 13 | Rungpore | 13 | 5 1 | 3 5 | 13 4 | | | | 9 | 6 | 9 6 | 10 0 | 13 | 5 | 13 | 5 12 | 12 | | | |
| 14 | Bogra | 15 | 0 1 | 8 5 | 13 8 | | | | 12 | 0 | 9 12 | 10 8 | 14 | 4 | 14 | 4 19 | 12 | 1146 | | 4.5 |
| 15 | | | 1 | 8 0 | 16 8 | | | 1 | 7 | | 7 2 | 7 8 | | | 14 | | | | | |
| | | | | | | | | | 1 | | | | | | 15 | | | | | - |
| 16 | Darjeeling | 8 | 0 | 9 0 | 9 (| 9 0 | 10 0 | 10 0 | 5 | 0 | 5 0 | 5 0 | 12 | 0 | 12 | 0 12 | 0 | - | - | |
| 17 | Julpigoree* | | 1 | 3 0 | - | 10 | 16 0 | - | 10 | 717 | 8 0 | 7 0 | | | 16 | 0 11 | 8 | - | 1. | 1. |
| | Bustern Districts. | | | | | 4 | | | | | | | | | | | | 704 | | |
| 18 | l l/acca | 12 | 0 1 | 2 0 | 13 (| 14 0 | 14 0 | 26 U | 18 | 0 | 13 0 | 9 12 | 14 | 0 | 14 | 0 11 | 0 | | 1 | 10. |
| 19 | Furreedpore | 16 | 0 1 | 6 0 | 18 (| 20 0 | 20 0 | | 10 | 0 | 10 0 | 9 0 | 18 | 0 | 13 | 0 13 | 0 | | | |
| 20 | Backergunge | | | | | | | | 200 | 12 | | 10 4 | | | 13 | | | | | |
| 01 | Mymensingh . | | | | | | | | | | | | | | | | . 0 | | - | I A |
| 21 | ary montaing it | - | 1 | 0 8 | 10 0 | | | - | 10 | 0 | 10 0 | 8 12 | 13 | 0 | 11 | 8 9 | 8 | | *** | E |

* Present return not received.

At Rampore Haut retail prices of sait per rupee are:—Colha 10 seers, Lutwa 10 seers 6 chittacks, and Ramegunge 10 seers.

Chauddvisions retail prices of sait per rupee are:—Contai 8 seers, Tumlook 8 seer.

Gin subdivisions retail prices of sait per rupee are:—Berampore 10½ seers and John abad 11 seers.

Din subdivisions retail prices of sait per rupee are:—Baraset 10 seers, Basirhat seers, Diamond Harbour (at Magrahat) 10 seers, and Barrackpore 9 seers 2 chittacks.

En subdivisions retail prices of sait per rupee are:—Rooshtea 10 seers, Meherpore 10 seers, Chocadanga 10 seers, and Ramaghat 9 seers 2 chittacks.

Fin subdivisions retail prices of sait per rupee are:—Batkhira 10 seers and Bagirhat 8 seers.

Gin subdivisions retail prices of sait per rupee are:—Batkhira 10 seers and Bagirhat 8 seers.

Gin subdivisions retail prices of sait per rupee are:—Jhenida 9 seers, Magura 19 seers, Narail 9½ seers, and Bongong 10 seers.

| 99- | 1 | | | | , | 3 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 8 14 | | 1 | 1 | 1. | 1 |
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| | | 1 | | 7 | | 15 0 | 1 | | | i | , | 4 | i | 1: 6 | 1.7 | 1 | 10 | • | 1 | 14 | 17 | 1 |
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| Corresponding re- turn of last year. | MBU. Cypho- | TOLAHS |
| Present return | MAR. | HS. |
| Next preceding re- | OA OR | |
| Corresponding re- turn of last year. | Kag1 | |

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| | 1 | • | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | ! | 7 0 | 8 14 | | | | 1 | 1 | | | S G | Next preceding re- | aria ita |
| ST AND | • | | | | | | | | 1 | 1 | 1 | 1 | | 1 | 10 0 | 16 2 | 1 | | 1 | | 1 | | 1 | S. G | Corresponding re- turn of last year. | italica.) |
| 199 | 17 | 16 | 16 | EDEY. | = | 19 | 15 | 12 | 21 | 17 | 21 | 16 | 13 | 20 | 20 | 17 | | 20 | 16 | 16 | 18 | 16 | 18 | - 00 | CATOR STATES OF SALE | - |
| 5 | - | | | | 0 | 0 | 15 | 4 | 0 | 00 | 0 | 0 | 0 | 10 | 0 | -41 | | 0 | 0 | 0 | 13 | 0 | 12 | 9 | Present return. | Сино |
| - | 17 | 16 | 16 | 16 | E | 18 | 15 | 12 | 13 | 18 | 18 | 16 | 12 | 22 | 19 | 5 | | 19 | 16 | 16 | 19 | 16 | 19 | ÇÓ. | Next preceding re- | S BOLA |
| - | | | | | | 15 | | | | | | | | | | 1036459 | | | | A VENEZUE | | | | | turn. | B 200 |

Head-quarter Station Bazars of the Districts of Bengal on the 31st October, 1890.

| DISTRICTS. | | WHOLESALE PRICES PER MAUND OF 40 SEERS, | | | | | | | | | | Arhar or thur, | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|----|----|---------|-----------------|-----|--------------------------|-----------------|-------|---------------|----------------------|----------|----------------|---------|-----------------|------|----------------------|--------|----------------|----------|-----------------|---------------|----------------------|---------|----------------|-----------------|---------------------------------|---------------------------------------|------------------------|-----------------|
| | | SALT. | | | | | | | | SALT. | | | | | | FIREWOOD. | | | | | JAN PEA. | | | | | | E. | INDIAN-COR MAIZE (Zea May | | | |
| | | of last year. | | | return. | Navt. preceding | | S INTRODUCED SOLUTION OF | Present return. | | ot last year. | Corresponding return | room or | Next preceding | | Present return. | | Corresponding return | TOMET. | Next preceding | | Present return. | of last year. | Corresponding return | return, | Next preceding | rresent return. | Description of | Corresponding return of last year. | Next preceding return. | Present return. |
| BENGAL. | | | 3 | | | | | | | | | 100 | V. | | | | 1 | | | | | | | | | | | | | | |
| Western Districts | | . A. | 14 | P. | ٠., | ICH. | P. | ۸. | | Ra | Jh. | 3 | h. | . (| b. S | . 0 | h. S | s c | h. | s. c | Jh. | 8. 0 | eb. | н. | Сь | 8. | Ch. | 8. | 8. Ch. | S. Ch | s. Ch |
| Burdwan. | 3 | 11 | 3 | 0 | 8 | 3 | 6 | | 7 | 3 | 5 | 10 | k 2-2 | 1 | k 21 | A 1 2 | 0,1 | 100 | 0 | 100 | 0 | 100 | 0 | 18 | 12 | 17 | 8 | 18 | | - | *** |
| Bankoora. | 0 | 15 | 3 | 0 | 13 | 3 | 0 |) | 10 | 8 | 0 | to | 0 | 0 | 8 1 | 0 1 | 0 1 | 28 | | 24 . | 0 | 280 | 0 | 16 | 0 | 18 | 0 | 18 | 28 0 | 28 0 | 2 0 |
| Beerbhoom. | 0 | 10 | 3 | 0 | 10 | 3 | 0 | | 10 | 3 | 8 | 10 | 8 | 0 | 3 1 | В | 01 | 160 | 0 | 160 | 0 1 | 160 | 8 | 10 | 8 | 13 | 8 | 18 | | 1 | |
| Midnapore. | 0 | 15 | 3 | 0 | 13 | 3 | 0 | | 18 | 3 | 8 | 10 | 8 | 0 | 3 1 | C | 01 | 160 | 0 | 120 | 0 | 120 | 0 | 12 | 8 | 11 | 0 | 12 | | | |
| Hooghly. | 6 | 11 | 3 | 0 | 12 | 3 | 0 | | 12 | 3 | 0 | 9 | 0 | 9 |) | D | 0 | 20 | 0 | 120 | 0 | 120 | 0 | 13 | 0 | 11 | 0 | 11 | | 2 | *** |
| Howrah. | 0 | 14 | 3 | 0 | 8 | 3 | 0 | | 8 | 3 | 2 | 9 | 8 | 0 | 3 10 |) 1 | 01 | 100 | | 100 | 0 | 100 | 8 | 12 | 8 | 12 | 8 | 12 | | | *** |
| Central Districts | | | | | | OL. | | | | | | | | | | | | | | | | A POS | | | | | 9 | P | | | |
| Calcutta. | 5 | 13 | 3 | 8 | 8 | 3 | 5 | | 10 | 3 | 12 | 9 | 8 | 0 | 1 1 |) . | 0,1 | 100 | 8 | 92 | 4 | 90 | 12 | 17 | 8 | 15 | 6 | 15 | 18 0 | 19 8 | 7 13 |
| 24-Pergunnahs. | 6 | 9 | 3 | 0 | 7 | 3 | 6 | | 6 | 3 | 0 | 0 | 2 | 0 1 | 2 1 | D1 | 0 1 | 00 | U | 100 | 01 | 100 | 4 | 18 | 0 | 17 | 8 | 14 | | | |
| Nuddea. | 0 | 14 | 3 | 0 | 12 | 3 | | | 12 | 3 | 2 | 9 | 3 | 9 1 | , | E 13 | 1 | *** | | *** | | | 12 | 17 | 13 | 16 | 0 | 16 | - | | |
| Khoolna. | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 9 | 0 | 8 |) | F | 0 8 | 20 | U | 160 | ., 1 | 16 | | | | | | | | | |
| Jessore. | 0 | 0 | 4 | 0 | 0 | 4 | 0 | , | 0 | 4 | 2 | 9 | 2 | 9 | | G | 0 8 | 60 | . 1 | 16 | 01 | 160 | 0 | 16 | 0 | 16 | 0 | 16 | | 1 | |
| Moorshedabad. | 0 | 8 | 8 | 0 | 8 | 3 | 0 | - | 12 | 3 | 0 | 1 | 4 7 | 1 | 1 | H 15 | 0 10 | 20 | 0 2 | 000 | 0 2 | 200 | 0 | 16 | 12 | 17 | 0 | 16 | | | |
| Dinagepore. | 0 | 0 | 4 | 0 | 0 | 4 | U | | 0 | 4 | 8 | 9 | 0 | 0 | 10 | I | 1 | 60 | 0 | 60 | 01 | 160 | 12 | 16 1 | 10 | 15 | 10 | 15 | | | |
| Rajshabye. | 0 | 0 | 4 | 0 | 0 | 4 | 4 | 1 | 13 | 8 | 9 | 9 | 9 | 9 | , , | J | | 4 | 0 | 4 | 0 2 | 240 | 8 | 16 | 2 | 17 | 4 | 18 | | | |
| Rungpore. | 0 | 8 | 4 | 0 | 4 | 4 | 0 | | 4 | 4 | 4 | 8 | 6 | 9 | , , | K | 0 8 | 00 | 0 1 | 00 | 01 | 100 | 4 | 12 | 10 | 10 | 10 | 10 | | 771 | |
| Bogra. | 0 | 0 | 4 | 0 | 0 | 4 | 0 | , | 0 | 4 | 0 | 9 | 0 | 9 | | 12 | 0 8 | 90 | 0 | 90 | 0 | 90 | | ** | | | | | i | | *** |
| Pubna. | 9 | 0 | 4 | 0 | 14 | 3 1 | 0 | | 14 | 3 | k 1-2 | 8-1 | k -2 | 8-1 | k 2 8 | I. 11 | 0 8 | 0- | 0 2 | | 0 2 | 2 нт | 4 | 17 | 10 | 17 | 4 | 17 | | | |
| Darjeeling. | 0 | 15 | 4 | 0 | 4 | 5 | 0 | (| M | 5 | 0 | 7 | 8 | 7 | , , | | 0 8 | 20 | 01 | 20 | 0 1 | 120 | 0 | 8 | 0 | 10 | 0 | 10 | 18 0 | 20 0 | 20 0 |
| Julpigoree. | | | | 0 | 4 | 4 | | | | | 0 | 8 | 0 | 9 | 1 | | 0 | 28 | 01 | 20.1 | 2 | | 0 | 8 | 0 | 11 | | | | | |
| Eastern Districts. | | | | | | | | | 100 | | | | | | | | | | | | | | | | | | | | | | |
| Dacca, | 0 | 15 | 3 | 0 | 0 | 4 | 0, | (| 0 | 4 | 0 1 | 0 | 2 1 | 9 1 | 1 9 | N 12 | 0) 8 | 50 | 0/1 | 20 | 0,1 | 120 | 0 1 | 14 | 0 | 16 | 01 | 16 | 1 | | |
| Furreedpore. | | | | | | | | | | | | 9 | | | 9/15 | | | | 5 | | | 120 | 50 | 256 | 33 | 36 | 31 | | | 16 0 | |
| Backergunge. | 0 | 2 | 4 | 0 | 12 | 3 1 | 0 ; | • | 12 | 3 | 2 | 9 1 | | | | 0 | 1 | | | | | 100 | | red | hmul | n wi | hop | K | 1300 | | |
| | | | 4 | - | TAN | i di | | | | | | 9 | | 0 | | P 8 | | | 1000 | | | 100 | | | | | | 10 | 1000 | | |

H In subdivisions retail prices of salt per rupee are :- Lalbagh 10 seers, Jungipore 10 seers, and Kandi 11 seers.

In Thakurgaon subdivision retail prices of salt sper rupee are:—Nowyong 9 seers 9 chittacks and Nattore 9 seers.

M At Siliguri wholesale price of salt 19, 4-4 per maund.

K In subdivisions retail prices of salt per rupee are:—Nowgong 8 seers 9 chittacks and Nattore 9 seers.

K In subdivisions retail prices of salt per rupee are:—Kurigram 8 seers, Nilphamari 9 seers, and Gaibanda 8 seers.

N In subdivisions rotali prices of salt per rupee are :--Manickgungs 9 seers, Moonsheegunge 8 seers, and Naraingunge 10 seers.

In subdivisions retail prices of sait per rupee are: — Ferozopore 97 Seers, Fattakhan 9 seers, and blook o seers.

In subdivisions retail prices of sait per rupee are: — Kishoregunge 8 seers, Jamalpore 9 seers, Sherpore 8 seers, and Netrokena 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

| | | . 170-77 | ote Vaj | 4-11-1 | 1 | | | | | | | HU-10 | 4 | JA. | | | | | EE IN |
|---------|--|-----------------|-------------------------|---------------------------------------|-----------------|------------------------|---------------------------------------|-----------------|---------------|---------|---------------------------------------|-----------------|----------------|-----|----------------------|---------------|-----------------|------------------------|---------------------------------------|
| | | | WHEAT. | | E | ARLEY. | | Rio | e, be | ST 5 | ORT. | R | ICE, | сом | MON | | | | HOLUM ulgare |
| Number. | DISTRICTS. | Present return. | Next preceding return. | Corresponding return of last year. | Present return. | Next preceding return. | Corresponding return of last year. | Present return. | Nort negocing | Ė | Corresponding return of last year. | Present return. | Next preceding | m. | Corresponding return | of last year. | Present return, | Next preceding return. | Corresponding return of last year, |
| Ra | stern Districts-co | ncluded. | s. Ch. | s. (h. | *. · h. | S Ch. | N. Uh. | s. o | | Oh. | s. Oh | 18. C | .,8. | Ch | 8. | Ob [| s. Oh. | s. Uh | S. Ch |
| 22 | Chittagong | 11 0 | 11 0 | 10 0 | 100 | | - | 12 | 12 | 0 | 8 0 | 15 12 | 15 | 12 | 14 | 0 | | - | |
| 23 | Noakholly | 3 | - | | | | | 14 | 14 | 0 | 11 0 | 15 0 | 15 | 0 | 13 | 0 | | | - |
| 24 | Tipperah | 10 0 | 13 52 | 11 7 | | | | 10 | 11 | 7 | 10 0 | 13 14 | 1 14 | 84 | 14 | 93 | , | | |
| 25 | Chittagong Hill Tracts. Hill Tipperah* | - | | | - | 1 | - | 10- | | 6g | 8 14 | 11 6 | a 12 | 15 | 9 : | | | - | - |
| 26 | BEHAR. | (16 12 1 | Red. | 16 2 | | 117 0 | los o | 111 | dan | 0 | 10 0 | lac a | 16 | 0 | 15 1 | | | - 28/1 | 21 0 |
| 27 | Gya | 15 12 15 4 | White. 15 12 15 4 | 13 12 | 17 0 | 1000 | 18 0 | 1 | 1 | | 10 0 | | | 0 | | 8 | | | |
| 28 | Shahabad | 15 8 | 16 8 | 14 0 | 16 0 | 19 0 | 17 0 | 9 (| 9 | 0 | 9 0 | 16 0 | 16 | 0 | 12 | 8 | | | |
| 29 | Durbhunga | 13 4 | 15 3 | 15 8 | 16 8 | 16 8 | 14 13 | 13 (| 18 | 0 | 10 4 | 16 8 | 16 | 8 | 14 | 0 | | - | |
| | Mozufferpore | 16 0 | 16 0 | 13 8 | 18 0 | 19 0 | 15 0 | 9 | 9 | 0 | 9 0 | 14 0 | 14 | U | 13 | 0 | | | |
| 1 | Sarun | 15 8 | 15 8 | 14 12 | 16 0 | 17 8 | 20 0 | 8 | 8 | 4 | 8 8 | 14 8 | 13 | 12 | 11 | 8 | | | |
| 2 | Chumparun | 16 0 | 17 0 | 14 8 | 19 0 | 19 8 | 16 0 | 9 (| 10 | 0 | 8 0 | 16 0 | 15 | 8 | 18 | 0 | | | |
| 3 | Monghyr | 16 12 | 16 12 | | | 16 12 | | | Ole | | 11 9 | V | Ole | 1. | 1.00 | 2 | , | - | - |
| 4 | Bhagulpore | 16 6 | 16 11 | 17 0 | 20 3 | 22 11 | 16 6 | 10 11 | Ne Ne | 6 w. | 11 6 | 13 14 15 12 | Ne Ne | 14 | 15 | 2 | | | - |
| 5 | Purneah | 16 0 | 18 1 | 15 0 | | | | F | | | | 17 0 | 1000 | | 12 | | | | - |
| 16 | Maldah | 18 0 | 18 0 | 17 0 | | | | 11 (| 9 | 0 | 11 0 | 16 0 | 16 | 0 | 14 | 0 | | - | - |
| 7 | Sonthal Perghs. | 14 0 | 13 0 | 18 0 | | Wasanii Wasanii | | 12 (| 13 | 0 | 13 0 | 15 0 | 16 | 0 | 16 | 0 | | - | ۱ |
| 8 | ORISSA Cuttack | 14 7 | 14 7 | 13 2 | | | 1 | 10 8 | 10 | 8 | 10 8 | 21 0 | 18 | 6 | 15 | 12 | | | (- |
| 19 | Poores | 14 7 | 13 2 | 11 13 | 1.4 | | | 14 7 | 13 | 6 | 15 12 | 21 0 | 21 | 0 | 19 | 5 | | | |
| 10 | Balasore | 15 0 | 15 0 | 15 0 | 18 0 | 18 0 | 13 " | 12 | 12 | 0 | 13 0 | 22 0 | 18 | 0 | 21 | 0 | | | |
| | CHOTA NAGE | 75 55 00 | | | | | | | | | | | | | | | | | |
| 3 | outh-West Frontier | 100 | | | | | | | | | (| (new) | | | | | | | |
| | Hazaribagh | 14 0 Whi | N/159925001N | | 17 0 | 17 0 | 14 0 | 10 (| 8 | U | 10.5 | 16 0 | 16 | U | 17 | 0 | | | " |
| 2 | Lohardugga | Red 14 0 | | 11 0 | No sale. | 17 8 | 12 0 | 13 | 13 | 0 | 12 0 | 16 0 | 14 | 0 | 14 | 0 | ••• | | - |
| 13 | Singbhoom | 12 0 18 5 | 12 0 13 5 | | 10.77(2) | 14 0 28 0 | 1995 | 10000 | 36 SW | | 10000000 | 3 33-53 | 200 | | 1330 | 770 | | | |
| | | | | No. | | | | | 1 | | | | | | 1 | lin. | *** | - | |

At Cox's Bazar retail price of salt 8 seers per rupee.

At Feni Hât retail price of salt 8 seers per rupee.

So In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Sasseram 10 seers, and Bhabuah 9 seers.

To In Madhubani and Samastipore subdivisions retail price of salt 10 seers per rupee.

In subdivisions retail prices of salt per rupee are:—Hajipore 9 seers and Sitamarhi 10 seers.

At Bettiah retail price of salt 10 seers per rupee.

| ERS | OF 80 | TOLA | HS. | | 1 |
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| BAJR Pent | A OR C | UMBU. | J | UA OR | RAGI. |
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| 17 | 20 | 18 | 21 | 21 | 19 | 500 | 19 | 19 | 19 | 18 | 19 |
| 0 | 0 | 0 | 7 | 0 | 00 | 00 | 0 | 12 | 0 | 0 | 00 |
| 16 | 16 | H | 100 | 21 | 18 | 18 | 17 | 19 | 20 | 18 | 19 |
| 12 | • | • | 15 | 10 | 0 | 00 | 0 | 0 | • | 0 | 90 |
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| W. | | | 1/ | ı | s Ch. s. Ch. s. Ch. s. Ch. s. Ch. |
| | : | 1 | | 1 | S. Ch. |
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| | 1 | 16 0 10 0 13 5 | 11 0 11 0 12 0 | 18 0 18 0 12 0 | 9 |
| To | E 45 | 10 | H | 13 | 92 |
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| 14 | Justice. | 13 | 12 | 12 | O. |
| | | - | 0 | 0 | 9 |

| Present return. | KANG ITAI (Set |
|---|----------------------|
| Next preceding return. | MI OR B |
| Corresponding re- turn of last year. | LLET. liea.) |
| Present return. | Снио |
| Next preceding re- | SUN. |

Corresponding return of last year.

| WHOLESALE PRICES |

Station Bazars of the Districts of Bengal on the 31st October, 1890-(concluded).

| | | | | | | | | | 相 | | | | | | | | | | | | | | | | M | | NI |) (| RIC OF | | |
|-----------------|------|----------------|----------|----------------------|-------------------|-----------------|------|----------------|------|----------------------|----------|-----------------|----------------|--------------------|----------------------|----------------|-----------------|----------|----------------|------|----------------------|------|------|-----------------|-----|----------------|---------|---------------|----------------------|---------------|--|
| H. | | MAN O | ZE. | | 2 | C | AD | JAN | PE | Δ. | | F | REV | VOOD. | | | 100 | 8. | ALT | | | | | | | SAL | T. | | | 25.8 | |
| Present return. | | Next preceding | Toom W | Corresponding return | or result hour. | Present return, | | Next preceding | | Corresponding return | - Inches | Present return. | Next preceding | | Corresponding return | or task year. | Present return. | | Next preceding | | Corresponding return | | | rresent return. | | Next preceding | return. | | Corresponding return | of last year. | DISTRICTS. |
| ». C | h. I | s. c | h. 8 | . CI | b. ₁ 8 | . CI | n.,8 | . C | h.,8 | . CI | n. /S. | Ch., 8 | . c | h. ₁ S. | Ch | . 8 | h | . 8. | Ch | . 8. | CI | . [1 | ls | . 1 | R | S. A | . P | Ha. R | ste | rn . | Districts—concluded. |
| | | | 1 | | | | | | | | 110 | 0 0 1 | 10 | 0 10 | 0 (| 0 10 | 0 | 10 | 0 | 8 | 3 0 | | 3 14 | | 0 8 | 14 | (|) 4 | 1 (|) (| Chittagong. |
| | | | | | | 8 (| | 8 (|) 8 | 3 0 | | | | | | 9 | 0 | 9 | 0 | 5 | 0 | | 4 (| , , | 0 4 | 0 | (| 9 | . 0 |) (| Noakholly. |
| | - | | | | 1 | 0 0 | , | 8 (|) 8 | 3 0 | | | I | | | 10 | 0 | 10 | 0 | 8 | 14 | | 1 0 | (| 4 | 0 | 0 | 4 | 8 | 0 | Tipperah. |
| 10,4 | | ••• | N. | | 1 | 20 | 1 | | | | 320 | 03 | 20 | 0 320 |) (| 8 | -0 | 8 | 0 | 8 | 0 | 1 | 8 | 0 | 4 | 8 | 0 | 4 | 8 | 0 | Chittagong Hill Tracts. Hill Tipperah. |
| 21 (| 2 | n (|) 25 | | 1 | 9 0 | 1 | | 22 | | 120 | | | 0 130 |) (| 110 | | | | | | . 8 | 10 | 0 | 3 | | 0 | 3 | 13 | 0 | BEHAR. |
| | | | | | 1 | 6 8 | 1 | 7 4 | 18 | 0 | 160 | 1 | 60 | 200 |) (| 0 10 | 0 | 9 | 4 | 9 | 2 | 4 | 2 | 0 | 4 | 2 | 0 | 4 | 2 | 0 | Gya. |
| | 1 | | | *** | 1 | 7 0 | 13 | 7 0 | 20 | 0 | 120 | 61 | 20 | 0 140 |) (| 10 | 8 0 | 10 | 0 | 10 | 0 | 3 | 15 | 0 | 3 | 15 | 0 | 3 | 15 | 0 | Shahabad. |
| 20 (| 2 | 0 0 | 24 | 8 | 17 | 7 0 | 17 | 7 0 | 21 | . 8 | 160 | 01 | 60 | 0 200 |) (| 11 | 0 | 11 | 0 | 10 | 0 | 3 | 8 | 0 | 3 | 8 | 0 | 3 | 8 | 0 | Durbhunga. |
| 18 (| 2 | 0 (| 25 | 0 3 | 20 | 0 | 17 | 7 0 | 18 | 0 | 160 | 0 1 | 50 | 0 160 | 0 | 10 | U | 10 | 0 | 10 | 0 | 3 | 4 | 0 | 3 | 11 | 0 | 3 | 12 | 0 | Mozufferpore. |
| 17 8 | 1 | 9 (| 20 | 8 | 12 | 7 12 | 18 | 8 4 | 20 | 0 | 180 | 97 | 80 | 160 |) | 10 | 4 | 10 | 4 | 9 | 8 | 3 | 13 | 0 | 3 | 12 | 0 | 4 | 2 | 0 | Saron. |
| 21 0 | 2 | 0 8 | 25 | 0 | 17 | 8 | 17 | 7 0 | 17 | 8 | 160 | 1 | 60 | 160 |) (| 10 | V V | 10 | 8 | 9 | 8 | 3 | 11 | 0 | 3 | 10 | 0 | 4 | 3 | 0 | Chumparur, |
| 21 6 | 2 | 1 0 | 23 | 1 | 16 | 12 | 17 | 7 13 | 19 | 15 | 168 | 01 | 17 | 147 | 0 | 9 | 15 | 10 | 8 | 9 | 7 | 3 | 13 | 0 | 8 | 11 | 0 | 4 | 0 | 0 | Monghyr, |
| 21 7 | 25 | 2 11 | 22 | 11 | 200 | | 100 | | 1 | | 1 PR | -10 | | 100 | | 150 | | 12.0 | | | 1 | | | 10 | | | | | | 0 | Bhagulpere, |
| ern. | V | - | | | 15 | 0 | 15 | 0 | 15 | 0 | | 0 13 | ill. | 18 | | | | | | | 0 | | 7 | | | | | 4 | 7 | 0 | Purneah. |
| . 0 | | | 12 | | | | | | | **** | | 0 15 | | | | | | | 0 | | U | | 0 | 9 | | | | | | | Maldah. |
| 21 0 | 25 | 0 | 27 | 0 | 21 | O | 20 | , 0 | 17 | 4 | 200 | 012 | 10 | 0'200 | 0 | 9 | 0 | 9 | 0 | 1.9 | 4 | 1 3 | 11 | 0 | 3 | 14 | 0 | 4 | 0 | O | Sonthal Perghs, ORISSA. |
| | 10 | | | | 19 | 11 | 19 | 11 | 18 | 6 | 80 | 0 8 | 0 1 | 80 | 0 | 11 | 0 | 11 | 0 | 11 | 0 | 3 | 12 | 0 | 3 | 12 | 0 | 3 | 12 | 0 | Cuttack. |
| | | ••• | | | 17 | 12 | 13 | 2 | 14 | 7 | 80 | 0 8 | 0 0 | 80 | 0 | 9 | 13 | 9 | 13 | 11 | 2 | 3 | 12 | 0 | 3 | 12 | 0 | 3 | 10 | 0 | Pooree. |
| 974 | | | 1 | | 1 | | | | 1. | | 160 | 16 | 0 . | 160 | | 10 | 0 | 10 | U | 9 | 0 | 3 | 14 | 0 | 3 | 4 | 0 | 250 | 2 | | Balasore, NAGPORF. |
| 20 0 | 95 | 0 | 97 | | 90 | 0 | mn. | 0 | 10 | | 940 | | | | • | | • | | | 0 | | | | 0 | | | | | | | Frontier Agency. |
| 4 0 | 20 | 0 | 27 | U | 20 | 0 | 20 | 0 | 10 | 0 | 240 | 024 | | 020 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 4 | 3 | | • | d | 0 | To the second | 8 | 0 | Hazaribagk. |
| 14 0 | 28 | 0 | 32 | 0 | 22 | 0 | 26 | 0 | 15 | 0 | 130 | 0 12 |) U | 140 | 0 | 9 | 0 | 9 | 0 | 8 | 8 | 4 | 2 | 4 | 4 | 2 | 0 4 | 1 | 0 | 0 | Lohardugga. |
| 0 0 | 20 | 0 | 32 36 | 16712 | 1000 | | 200 | \$3753 | 582 | 323 | 158311 | 0 200 | SHIP | 1000 | 221 | 9 Z2 9 1 | 301 | 9 9 1 | | 7 | 0 | | 6 | 013 | | | 110 | | | 100 | Singbhoom. |
| W | 1 | 0.50 | 1 | | 200 2000 | | EG. | | 900 | | | rupeo | | | 1 | | 1 | | 1 | | | 4 | | 1 | | | 1 | | 81 | 1 | 17-4 |

Y In Khoorda subdivision retail price of salt 9 seers per

22 At Govindpore retail price of salt 9 seers per rupee.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and S

| | | | 1 | | | V | VH | EAT | r. | | | | 100 | | | BAR | TEL | | | 2 | | | 1713 | Rici | 8, BI | est f | BORT | r. | | | A I | | R | ICE, | CON | fMO1 | g, |
|---------|------------------|----|----|-----------------|----|---|--|------------------------|----|---|----------------------|---------------|-----|-----------------|----|-----|------------------------|--|------------------|---------------|----------------------------|---|-----------------|------|-------|------------------------|------|-----|---------------|----|--|-----------------|----|--|------------------------|--------------------------|----------------------|
| Number. | MARTS. | | | Present return. | | | The state of the s | Next preceding return. | | | Corresponding return | of last year. | | Present return. | | | Next preceding return. | A DOUBLE OF THE PARTY OF THE PA | Commonding setum | of last year. | NAME OF PERSONS ASSESSMENT | | Present refurn. | | | Next preceding return. | | | of last year. | | A STATE OF THE PARTY OF THE PAR | Present return. | | The State St | Next preceding return. | This is the found of the | Corresponding return |
| | 11 (2 , = 1= 11) | - | R. | A | P. | 1 | R. | ۸. | P. | R | | P. | B | | P. | R | | P. | R. | ٨. | P. | R | ۸. | P. | B | . А. | P. | ft. | A | P. | k | | P. | R | | P. | R. 4 |
| 1 | Calcutta | | 2 | 11 | 10 | | 2 | 12 | 4 | 2 | 12 | 9 | 1 | 15 | 6 | 2 | 0 | 2 | 2 | 2 | 4 | 4 | 5 | 2 | 4 | 3 | 3 | 4 | 12 | 11 | 2 | 12 | 11 | 2 | 14 | 1 | 2 1 |
| 2 | Serajgunge | | 2 | 4 | 0 | 1 | 2 | 5 | 0 | 2 | 6 | 0 | 1 | *** | | | *** | | | | | 4 | 13 | 0 | 4 | 4 | 0 | 4 | 8 | 0 | 3 | 4 | 0 | 3 | 2 | 0 | 3 |
| 3 | Dacca | | 3 | 4 | 0 | | 3 | 4 | 0 | 3 | 0 | 0 | 2 | 12 | 0 | 2 | 12 | 0 | 1 | 8 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 2 | 13 | 0 | 2 | 13 | 0 | 3 1 |
| 4 | Naraingunge | | | | | 1 | | ••• | | | | | | | | 1 | | | | | | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 2 | 12 | 0 | 2 | 12 | 0 | 3 |
| 5 | Chittagong | | 3 | 8 | 0 | | 3 Red | 8 | 0 | 3 | 12 | 0 | | | | | | | | , | | 3 | 4 | 0 | 3 | 4 | 0 | 4 | 11 | 0 | 2 | 8 | 0 | 2 | 8 | 0 | 2 1 |
| 6 | Patna | 13 | 2 | 5 8 | 6 | w | 2 hit | 5 | 0 | 2 | 6 | 0 | }2 | 5 | 0 | 2 | 5 | 3 | 1 | 13 | 0 | 3 | 8 | 0 | 3 | 8 | 0 | 3 | 14 | 0 | 2 | 6 | 0 | 2 | 6 | 8 | 2 |
| 7 | Balasore | | 2 | 8 | 0 | 1 | 2 | 8 | 0 | 2 | 8 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 4 | 0 | 3 | 4 | 0 | 3 | 0 | 0 | 1 | 13 | 0 | 2 | 3 | 0 | 11 |
| 8 | Pooree | | | | | - | | | | | *** | | | | | | ** | | | | 1 | | 474 | | | | | 1 | | | 1 | 14 | 3 | 1 | 14 | 3 | 2 |
| 9 | Cuttack | 1 | 2 | 10 | 0 | 1 | 2 | 10 | 0 | 3 | 0 | 0 | | | | | *** | | | | 1 | 3 | 10 | 0 | | 10 | 0 | 3 | 10 | 0 | 1 | 12 | 0 | 2 | 2 | 0 | 2 |

CALCUTTA, The 11th November, 1890.

| | oLUM. | BAJRA (Penn | OR Constum | typhoi- |
|------------------------|---------------------------------------|-----------------|------------------------|---------------------------------------|
| Next preceding return. | Corresponding return of last year. | Present return. | Next preceding return. | Corresponding return of last year. |
| A. P. | R, A. P. | R.A.P. | R.A.P. | R.A.P. |
| | 2 4 11 | 4 0 4 | 4 6 3 | 3 4 6 |
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| | | 4 | in . | |

2282a

MARUA OR RAGI. (Blowine Corocana.)

H Harty Starle ita

This shall be shall

in the undermentioned Marts of Bengal on the 31st October, 1890.

| RAM, KADA (Ci | Ch | HA | OI Iri | eti | CE | EH SA | OL. | Δ, | 1 | 1 | ND | | | | RN M | | | | 121 | e. | - | | | C | HA! | JA | P | EA | | | | | | | FIR | EW | 001 | D, | | | - | | | | | SA | L/I | | | | | |
|---------------------|----|-----|------------------------|-----|----|----------------------|---------------|----|---|--|-----------------|-------------------|---|----|------------------------|----|---|-----------------|--------------|----|---|---|-----------------|------------------|-----|-----------------------|---|----|----------------------|----|----------|---|-----------------|----|--|------------------------|-----|----|-----|---------------|----|---|-----------------|----|---|-------------------------|-----------------------|----|------------------------|---------------|----|------------|
| Present return. | | | Next preceding return. | | | Corresponding return | of last year. | • | | The state of the s | Present return. | The second second | | | Next preceding return. | | | Courses on Mile | of last voor | | | | Fresent return. | SA THE PROPERTY. | | Next preceding return | | | Corresponding raturn | | | | Present return. | | A STATE OF S | Next preceding return. | | | dsa | of last year. | | | Present return. | | | Wast proceedings of the | Mary processing court | | Champanon I'm . nature | of last verr. | | MARTS. |
| A. P. | | ۴. | ۸. | P. | 1 | ٤. | ۸. | P. | I | ٤. | ۸. | P | 1 | R. | ٨. | P | | R. | 4. | P | 1 | | ۸. | P. | R | | P | 1 | R. | ۸. | P | R | 4 | p. | R | | P. | R | | 4. 3 | P. | R | | т. | F | ١ | Δ. | P. | R. | ۸. | P. | |
| 0 7 | 5 | 2 | 0 | 5 | | 2 | 7 | 0 | 7 | | 15 | 10 | 1 | 1 | 12 | 10 |) | 2 | 0 | - | 5 | 2 | 5 | 6 | 2 | 5 | | 8 | 1 1 | 15 | 9 | 0 | 5 | 9 | 0 | 5 | 9 | 0 | | 5 | 6 | 3 | 10 | | | 3 | 8 | 8 | 3 | 13 | 5 | Calcutta. |
| 8 0 | 1 | 2 | 8 | - 0 | 1 | 3 | 2 | 0 | | | | | 1 | | ••• | | - | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 3 | 14 | C | 8 | 3 1 | 2 | 0 | 3 | 14 | 0 | Serajeunge |
| 8 0 | 5 | 2 | 8 | 0 | 4 | 3 | o | 0 | 1 | e, | | | | | | | - | | | | 5 | 2 | 8 | 0 | 2 | 8 | | 0 | 2 1 | 12 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | | 4 | 0 | 4 | 0 | 0 | 4 | | 0 | 0 | 3 | 15 | 0 | Dacca. |
| 8 0 | 1 | 3 | 8 | 0 | 2 | 3 | 0 | 0 | | | | | | | | | | | | | | 3 | 8 | 0 | 3 | 8 | | 0 | 3 1 | 12 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 1 | 8 | 0 | 3 | 12 | 0 | 8 | 1 | 2 | 0 | 4 | 0 | 0 | Naraingun |
| 4 (| 9 | 2 1 | 14 | 0 | 1 | 3 | 4 | 0 | | | | | | | | | 1 | | | | | | | | | | | 1 | | | Q) De | 0 | 5 | 4 | 0 | 5 | 4 | 0 | | 7 | 0 | 8 | 14 | 0 | 8 | 3 1 | 4 | 0 | 4 | 0 | 0 | Chittageng |
| 0 (| | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 13 | (|) | 1 | 14 | (|) | 1 | 12 | (| 5 | 2 | 0 | 0 | 2 | 0 | | 0 | 1 | 12 | 0 | 0 | 5 | 0 | 0 | 6 | 0 | 0 | | 5 | 0 | 3 | 10 | 0 | 3 | 3.1 | 0 | 0 | 3 | 13 | 0 | Patna. |
| 2 0 | 1 | 2 1 | 2 | 0 | 1 | 2 1 | 2 | 0 | | 10 | | | | | | | - | | | | | | | | | | | - | | | | 0 | 4 | 6 | 0 | 4 | 6 | 0 | 4 | 4 | 6 | 3 | 14 | 0 | 9 | 3 1 | 4 | 0 | 4 | 2 | 0 | Balasore. |
| | | | ** | | | | | | | | | | - | | | | | | | | | | | 16 | | | 9 | 1 | | | 1 | | | | | | | | | | 1 | 3 | 12 | 0 | 3 | 3 1 | 2 | 0 | 3 | 10 | 0 | Pooree. |
| | 1 | 2 | 5 | 0 | 1 | 1 | 2 | 0 | | | | | 1 | | | | - | | *** | | 2 | | 0 | 0 | 2 | 0 | (|) | 2 | 2 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | | 8 | 0 | 3 | 12 | 0 | 3 | 3 1 | 2 | 0 | 3 | 12 | 0 | Cuttack. |

Published for general information.

P. NOLAN, Secy. to the Govt. of Bengal.

Meteorological Report of the Province

| | | | | | -400 | 1 | | ST | ATIO | N OB | SERVA | TIONS. | | | Station | | |
|------|--|-----------------------------|---|--|-----------------------------|-------------------------------|--------------------------------|-------------------|--------------|---|--|------------------------------|--------------------------------|--------------------------|--------------------------------|-----------------------------|-----------------------------|
| | | | | ATR I | PRESSUI | IX. | | | | TEMPE | RATUR | E. | | Ними | DITY. | CL | oud. |
| | DISTRICT | Representative stations, | Highest, 8 A.M., burometerread- ing of month. | Lowest, 8 A.M., narometerread- ing of month. | Mean, 8 A.M., for month. | Meau reduced to sea-level. | Variation from normal mean. | Highest of month. | westo | Mean daily maxi- mum tempera- ture. | Mean daily min- mum tempera- ture. | Mean daily tem- perature. | Variation from normal mean. | Mean, 8 A.M humidity. | Variation from normal mean. | Mean cloud amount, 8 a.M | Variation from normal mean, |
| 1 | ſ | Pooree | 30.008 | 29-693 | 29.881 | 29:896 | _ | 92.2 | 70.6 | 87'4 | 76.6 | 83.0 | _ | 85 | - | 8.7 | 1 |
| | 'coree { | False Point | 29°995 29°988 | 29.677 | 29:875 | 29:×97 29:896 | +:011 | 89.2 | 70°1 | 87°3 85 9 | 75.1 | 81:2 80:1 82:1 | -1.0 -0.5 | 80 86 79 | 0 | 4.8 | -0 |
| | Cuttack | Cuttack | 29*955 | 59.656 | 29 827 | 29.910 | + '005 | 63.9 | 70:3 | 89.0 | 751 | 80 5 | | 87 | | 2.4 | Filler |
| 100 | Salasore | Balasore | 80.031 | 29.626 | 29.826 | 29.916 | + '005 | 90'4 | 68.9 | 86.6 | 74'5 | | +013 | 90 | +3 | 5.7 | - |
| н | South-West Midnapore and South 24-Pergun- nahs | Saugor Island | 30.004 | 29.676 | 29.879 | 29'905 | - 002 | 89.7 | 70.0 | 85.3 | 75'4 | 80.4 | | | 40 | | +0 |
| 3 | Midnapore | Midnapore | 29:873 | 29.530 | 29.758 | 29*906 | -'014 | 98 8 | 65'2 | 88:2 | 73'6 | - 80.9 | +0.6 | 82 | - | 2.3 | - |
| 2 | 4-Pergunnaha, Howrah, and Hooghly. | Calcutta | 801019 | 29.609 | 29.889 | 29°911 | 0 | 89.2 | 66 7 | 84.7 | 73'4 | 79°1 | -15 | 87 | +4 | 3.9 | -1 |
| E | Burdwan | Burdwan | 29*946 | 89.612 | 29'821 | 29.924 | + '006 | 91.6 | 67.4 | 87.1 | 74'9 | 81.0 | -0.7 | 83 | +2 | 4.3 | -0 |
| E | Bankoora | Bankoora | 29*714 | 29:355 | 29 588 | 29.894 | 012 | 92'1 | 64'2 | 87.1 | 72.8 | 80.0 | -1.0 | 83 | 100 | 3.1 | - |
| | West Burdwan} | Ranigunge | 29.719* | 29*330* | 29-590* | 59,835. | +:017 | 92.5 | 621 | 86-8 | 72'3 | 79.5 | -1.5 | 85 | - | 2.9 | - |
| 2 | Moorshedabad | Berhampore | 20.020 | 29 671 | 29.843 | 29.911 | 009 | 90 1 | 64.7 | 85'4 | 78'5 | 79'4 | -1.8 | 89 | +7 | 3'9 | -0 |
| 1 | Nuddes | Krishnagore | 29:987 | 29'681 | 29.860 | 59,509 | +.002 | 91.8 | 63.9 | 86.2 | 72.3 | 79'4 | -13 | 83 | - | 4.9 | - |
| J | lessore and Khoolna | Jessore | 80.003 | 20:727 | 29.874 | 29.909 | 002 | 92.8 | 69.6 | 86.7 | 75.1 | 80.8 | -1.0 | 89 | +3 | 5.0 | -0 |
| 0 | Chittagong | Chittagong | 29.951 | 29.739 | 29.838 | 29:930 | +.006 | 90.7 | 69.7* | 86.7 | 74.6* | 80.7* | +06 | 89 | 0 | 4.4 | -0 |
| 1 | Chittagong Hill Tracts | Demagri | | | | 45 | | Ot | serva | tions n | ot recei | ved. | | | | | |
| 1 | Backergunge | Barrisal | 30.024 | 29.776 | 29.898 | 29.905 | + '008 | 91.3 | 69.4 | 86.5. | 71.8 | 89.6* | +0.4 | 83 | - | 37 | - |
| 1 | Noskholly | Noakholly | 30.010 | 29'768 | 58.888 | 29.933 | +*040 | 89.0 | 67.4 | 85.7 | 74.1 | 79'9 | -0.1 | 86 | - | 1.3 | - |
| 1 | Furreedpore | Furreedpore | 30'014 | 29.750 | 20'884 | 29 924 | + '006 | 88'5 | 67:4 | 84.7 | 74'4 | 79.5 | -0.6 | 86 | - | 3.8 | - |
| 1 | Daoca | Duces | 30,000 | 29-762 | 29.883 | 291906 | 002 | 92.1 | 67.2 | 86'7 | 74'6 | 80.7 | - 1.0 | 85 | 0 | 4.9 | +0: |
| 13 | Tipperah | Commillah | 50'019 | 29.777 | 29 887 | 29.923 | +.019 | 91.3 | 65.8 | 26.6 | 73.0 | 79.8 | -1.5 | 85 | - | 4.1 | - |
| 3 | Mymensingh | Mymensingh | 29 984 | 29'744 | 29.858 | 29.917 | + '012 | 10000 | 671 | 84.7 | 73'1 | 78'9 | -1.6 | 89 | - | 4'6 | - |
| 1 | Bogra | Bogre | 29 960 | 29*702 | 29 833 | 29'897 | -'041 | 89.3 | 641 | 84'2 | 7215 | 78'4 | -17 | 88 | 1 | 3'4 | |
| 10 | Pubna | Serajgunge | 29:962 | 29.687 | 29.838 | 29-912 | 003 | 90.8 | 64'8 | 85'2 | 72.8 | 79'0 | -1'0 | 86 | | 4.4 | |
| 1 | Rajshahye | Rampore Beau- leah. | 20 002 | 20 651 | | 20 909 | +,009 | 50 3 | 00.7 | 04.0 | 73.8 | 79.4 | -0.5 | 84 | - 7 | 2'4 | |
| 3 | Maldah | Maldah | 19.961 | 29.683 | 39.833 | 20.012 | +*074 | 90.9 | 68'3 | 85.7 | 71.7 | 78'7 | -1.6 | 82 | - | 1'8 | - |
| 1 | Dinagepore | Dinagepore | 29 915 | zv*657 | 2: '797 | 29.810 | 069 | 90.6 | 64.2 | 55.1 | 71'6 | 76'4 | -27 | 87 | - | 3.0 | - |
| 1 | Rungpore | Rungpore | 29 935 | 29.666 | 19.808 | 29-936 | +'008 | 89.8* | 64.2 | 84.9* | 71.7 | 78.3* | -11 | 87 | - | 1.7 | - |
| 3 | Intpigoree and Cooch Being. | Julpigores | 29.740 | 29.200 | 29.632 | 29.926 | 004 | 89.9 | 62'1 | 84'0 | 68'6 | 76.8 | -1.8 | 91 | 7 | 5.0 | - |
| 1 | Darjeeling Hill Tracts | Darjeeling | 23 121 | 22.942 | 23.034 | | -'019 | 64'6* | 42'2 | 60.4* | 49.3 | 54'9* | 0 | 87 | +11 | 5'8 | -0 |
| 1 | Purnesh and North | Purneal | -29-208 | 29*647 | 29.792 | 29:932 | + '005 | 8U'7 | 60.2 | 84'6 | 70'2 | 77:4 | -0.5 | 89 | +8 | 2.2 | -1 |
| | Ebagulpore. | Mozufferpore | 29'845 | 29.574 | 29*7:8 | 29*912 | - | 90'8 | 66.3 | 85'4 | 73 4* | 79.5* | 1 | 90 | | 21 | |
| | Mozuferpore | Durbhunga | 29-875 | 29.600 | 29.756 | 291927 | 018 | 50.8 | 62'0 | 85'7 | 71'1 | 78'4 | -1.6 | 88 | -2 | 1.9 | -1 |
| 15 | Chomparun | Motihari | 29.807 | 29.947 | 39.701 | 297933 | +:011 | 91'2 | 58.9 | 80'3 | 69.3 | 77'8 | +01 | 84 | | 1'5 | |
| | Saran | Chupra | 29.083 | 29.542 | 29.716 | 20'914 | +.005 | 92.8 | 62'9 | 86.2 | 73'1 | 79.7 | +0.0 | 85 | 3 | 1.9 | |
| 1 | | Dehree | × 20 684 | 29 383 | 201563 | 29:936 | 003 | 91 3 | 69'5 | 874 | 69.7* | 78:1* | -0.1 | 79 | | 18 | |
| 8 | Shahabed { | Buxar | 29'797 29'853 | 20.038 | 49.679 49.717 | 29:914 | + 007 | 91's | 60 4 57'8 | 85 7 86 7 | 70'8 70'8 | 78'0 | -1 6 -0 2 | 79 83 | = | 1.7 | = |
| 1 | sys | Gya | 29:657 | 29°339 | 29-545 | 29:933 | +,015 | | 61.7 | 86.6 | 70'9 | 78'8 | -1.4 | 78 | +5 | 2.0 | -0 |
| 4 | Page | Bankipore | 29 849 | 20 551 | ±9°738 | 29.926 | + 001 | 91.0 | 62'3 | 85'9 | 71.7 | 78'8 | -17 | 77 | 0 | 2.3 | -1 |
| 1 | south Bhagulpore and | Bhaguipore | 19 861 | 29'55+ | 29*742 | 29:908 | +'001 | 90 7 | 62.0 | 85'0 | 70 7 | 77*9 | -12 | 84 | 14 | 27 | - |
| 4 | sontuni Percunpahs | Naya Doomka | 29°528 | 29.192 | 29:408 | 29'916 | +1002 | 90'6 | 60 3 | 85'1 | 70'4 | 77'8 | -11 | 83 | | 10 | |
| 210 | mataribagh | Hazarioagh | -7-997 | 27.680 | 27, '815 | 29 984 | -+006 | 86.2 | 58-5 | 81:3 | 65-6 | 73'5 | -1.5 | 79 | +7 | 2.0 | -1 |
| | Demeduces} | Ranchee | 17.870 | 27'550 | 27.778 | 29 927 | -*003 | 86'0 | 55'9 | 81'4 | 63.9 | 72.7 | -1.6 | | - | 3.0 | - |
| G48. | dingbloom | Chyebassa | 29:252 | 28.899 | 29 137 | 29.914 | +*007 | 90 9 | 60.5 | 87.2 | 69.8 | 78'5 | -0.0 | 81 | | 3,3 | - |
| 9 | | Sibsagar | 29.728 | 29.500 | 29'634 | 29.977 | + 013 | 101 | 01.8 | 83'8 | 70'8 | 77.3 | -0.8 | Selm | 0 | 8.2 | +1 |
| 1911 | Section | Dhubri | CF 982 | 29 677 | 25.8:1 | 20.837 | - 003 | 87.2 | 6. 9 | 8.5 | 71'5 | 77'0 | -2.5 | | -4 | 4'5 | +1 |

* Mean of 30 days.

Bangal for the month of October 1890.

| Since 18th May 1800. Representative station. | 0181 | | | | | | 8. | ERVATION | TRICT OBS | DIS | | | |
|--|------|--|----------------|--|----------------------------------|--------------------|--------------------|--|--|-----------------------|-------------------------|-----------------|--------------|
| Color Colo | Dire | | | | | | | ALL. | RAINP | | | | 21.23 |
| Color | | DISTRICT. | | FE 715 | 1890. | 15th May | Since | | | | Of month. | | |
| | | | station. | Normal mean num- ber of rainy days. | Mean num- berofrainy days. | Variation. | Normal mean, | Jo . | Normal mean num- ber of rainy days. | Number of rainy days. | Variation from mean. | Normal mean, | Mean of dis- |
| 80:99 51.74 +8.95 77.4 73.0 Balasore Balasore South-West Midmapore and South-Wes | 1 | Pooree | Gopalpore | 77.7 | 90.0 | Marie and a second | 52'33 | 63 95 | 6.8 | 10:3 | +2:10 | 8-18 | 10°28 |
| South Sout | 1 | . Cuttack | Cuttack | 76.0 | 81.0 | +11.87 | 49.80 | 61'67 | 8'2 | 7.6 | +1.99 | 5.63 | 7:63 |
| |) | | Balasore | 73.0 | 77.4 | +8'65 | 51.74 | 60.39 | 6.9 | 8.0 | +4'03 | 5.25 | 928 |
| S5'00 S0'50 +4'53 S2'7 S7'1 Calcutta | 1 | and South 24-Perguns 1 | Saugor Island | 82.4 | 87'0 | +4'65 | 61.00 | 65-65 | 8.1 | 11.3 | +10.62 | 7:72 | 18'37 |
| 61'16 | 1 | SHILL ON THE STATE OF THE SHIP | Midnapore | 1 70.0 | 80'9 | -0.61 | *50'61 | 50.00 | 5'4 | 7.0 | +0'46 | 4.27 | 473 |
| S2'01 | 1 | 24-Pergunnahs, Howrah, and Hooghly. | Calcutta | 87.1 | 83.7 | +4.23 | 50.26 | 55.09 | 7.4 | 8.6 | +4.06 | 4.17 | 8:23 |
| G3768 51'45 +12'13 86'8 81'0 Ranigunge { West Burdwan and Beerbloom, Signature { Ranigunge { West Burdwan and Beerbloom, Signature { Signature | 1 | Burdwan | Burdwan | 73.6 | 81.3 | +15'34 | 45.82 | 61.16 | 6.0 | 73 | +1.02 | 3.64 | 4'90 |
| | 1 | | Bankoora | 78-2 | 77'1 | +0'54 | 51'47 | 52.01 | 5.9 | 7.0 | +1.88 | 3.46 | 5'34 |
| Simple | | Beerbloom, | Ranigunge { | 81.0 | 86.8 | | 51'45 | 63.28 | 5.7 | 7:8 | +4.62 | 3'46 | 8.08 |
| 13 | 1 | | A CHARLEST CO. | The state of | | | 49.66 | 60.55 | 6.8 | 7.8 | + 8.53 | 4:22 | 7'44 |
| 117'69 | | | | 1 | | - | 3340Y - 124 | | 6.4 | 8.0 | +4.53 | 4.51 | 8'74 |
| 72:90 77:77 - 4:87 95:5 107:2 Demagri Chittagong Hill Tracts 63:16 74:35 - 6:19 100:4 101:8 Barrisal Backergunge | 1 | | | No. | | Aug. | THE PROPERTY. | the state of the state of | 6.8 | 9.9 | +3.43 | 4.42 | 7'85 |
| 6816 74'35 -6'19 100'4 101'8 Barrisal Backergunge | 1 | | | STATE OF THE PARTY | | 1 | -12mg | | 8'9 | 9.5 | -2.78 | 6.66 | 3'88 |
| 103.16 | И | Bankaman | Company 1 1999 | | | | | Total State | 10.0 | 6.2 | -2.86 | 7:16 | 4'30 |
| 15 19 59 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 83 70 70 84 70 70 84 70 70 84 70 70 84 70 70 84 70 70 84 70 70 84 70 70 84 70 70 84 70 84 70 70 70 84 70 70 84 70 70 84 70 70 84 70 70 70 70 70 70 70 7 | H | Noskholly | | | | 1 | | | 8.8 | 10.3 | +1'59 | 5'55 6'37 | 7:14 |
| 58 19 59 07 -0 88 95 8 876 Dacca | 1 | Furreedpore | 1 | 1000000 | | Mark to the | | 711/1/2 | 7:1 | 9.3 | +3.09 | 4'44 | 8.80 |
| 60 11 | И | Dacea | | 87.6 | 95'8 | -0'88 | of the sale of the | | 6:5 | 10.2 | +0.73 | 4'45 | 7'63 5'18 |
| 75.68 | H | Tipperah | | 92.6 | 91.2 | -6.81 | 200 | 1000 | 73 | 11.3 | +1'15 | 5'11 | 6.56 |
| T8:58 | H | Mymensingh | Mymensingh | 87'4 | 92'2 | +7.58 | 68.10 | 75.68 | 6.7 | 9-2 | +8'62 | 5.41 | 9.03 |
| 5438 5233 +185 980 783 Serajgunge Pubua 7493 5262 +2231 919 739 Rampore Beauleah. Rajshahye 6212 5340 +872 850 812 Maldah Maldah 8174 5615 +2559 758 764 Dinagepore Dinagepore 16661 7309 +3352 1006 747 Rungpore Bungpore 15451 10953 +4498 1126 951 Julpigoree Julpigoree and Cooch Behar. 16558 11957 +4601 1301 1094 Darjeeling Darjeeling Hill Traots. 8967 5799 +2268 770 683 Purneah Purneah and North Bhagulpore. 55767 4207 +990 740 554 Mozufferpore 5763 4379 +1373 722 557 | II. | Bogra | Bogra | 75.5 | 91.9 | +22.02 | 56.26 | 78'58 | 5.7 | 7:3 | +6'96 | 4:46 | 11'36 |
| Cain | li | Pubua | Serajgunge | 78'3 | 98.0 | +1'85 | 52.53 | 54'38 | 6.2 | 10.2 | +1.04 | 4:59 | 5.63 |
| 81.74 56.15 +25.59 75.8 76.4 Dinagepore Dinagep | ĺ | u- Rajshahye | | 78'9 | 91.9 | +22'31 | 52-62 | 74.98 | 5-4 | 9.0 | +6.59 | 3'73 | 16:05 |
| 106:61 73:09 +33:52 100:6 74.7 Rungpore Rungpore 154:51 109:53 +44:98 112:8 95:1 Julpigoree Julpigoree and Cooch Behar. 165:58 119:57 +46:01 130:1 109:4 Darjeeling Darjeeling Hill Tracts. 80:67 57:99 +22:68 77:0 68:3 Purneah Purneah and North Bhagulpore. 53:57 42:67 +9:90 74:0 55:4 Mozufferpore Mozufferpore 57:63 43:99 +13:73 72:2 55:7 Durbhunga Durbhunga 68:47 45:89 +22:58 67:5 51:9 Motihari Chumparun 53:80 41:67 +11:93 63:7 54:7 Chupra Sarun 49:59 39:06 +10:53 72:4 58:5 Buxar Shahabad 56:93 40:57 +16:36 70:5 54:9 Gya Sou | H | Maldah | Maldah | 81'2 | | +8'72 | 53.40 | 62.15 | 5'8 | 6.2 | +3.91 | 8.69 | 7:60 |
| 154 51 109 53 + 44 98 112 6 95 1 Julpigoree Julpigoree and Cooch Beliar. 165 58 119 57 + 46 01 130 1 109 4 Darjeeling Darjeeling Hill Tracts. 80 67 57 99 + 22 68 77 0 68 3 Purneah Purneah and North Bhagulpore. 59 57 42 67 + 9 90 74 0 55 4 Mozuflerpore Mozuflerpore Mozuflerpore Mozuflerpore Durbhunga Durbhunga Durbhunga 57 63 43 90 + 13 73 72 2 55 7 Durbhunga Durbhunga Durbhunga Chumparun Sarun Sarun Shahabad Shahabad Shahabad | I | Dinagepore | Dinagepore | | | +25'59 | 56.15 | 81.74 | 4.7 | 5'2 | +7.89 | 3.55 | 11'44 |
| 165 58 119 57 +46 01 139 1 109 4 Darjeeling Darjeeling Hill Tracts. | ero. | | Rungpore | The state of the | | | A Notes | 106:61 | 5.3 | 6.8 | +13'39 | 4189 | 18'28 |
| 80 67 57 99 +22 68 77 0 68 3 Purneah Purneah and North Bhagulpore. 52 57 42 67 +9 90 74 0 55 4 Mozuflerpore Mozuflerpore Mozuflerpore Mozuflerpore Mozuflerpore Durbhunga Durbhunga Durbhunga Durbhunga Chumparun Sarun Sarun Mozuflerpore Sarun Mozuflerpore Sarun Mozuflerpore Sarun Shahabad Shahabad Mozuflerpore Shahabad Shahabad Shahabad | 1 | Julpigoree and Cooch Behar. | Julpigoree | 95.1 | 112.6 | +44'98 | 109.23 | 154'51 | 6.1 | 5.2 | + 9.69 | 2.58 | 14.98 |
| Bhagalpore Bha | ľ | Darjeeling Hill Tracts. | Darjeeling | 109.4 | 130.1 | +46.01 | 119.57 | 165.28 | 7'4 | 11.2 | 48'23 | 6.02 | 16:28 |
| 57:63 | 1 | Purneah and North Bhagulpore. | Purneah | 68-8 | 77*0 | +12.68 | 57'99 | 80 67 | 4.2 | 4'8 | +2.62 | 3'61 | 6:23 |
| 68'47 45'89 +22'58 67'5 51'9 Motihari Chumparun | 1 | Mozufferpore | Mozufferpore | 55*4 | 74'0 | +9.80 | 42.67 | 59'57 | 3.8 | 4'3 | -1.61 | 8'40 | 1'79 |
| 53.60 41.67 +11.93 63.7 54.7 Chupra Saran | 18 | Durbhunes | Durbhunga | 55.7 | 72 2 | +13.78 | 13'90 | 57.63 | 3'4 | 4.0 | -1.18 | 2.02 | 174 |
| 49 59 39 06 +10 58 72 4 58 5 Dehree Shahabad | 1 | Chumparun | Motihari | 51.9 | Company of | +22.28 | 45 89 | 68:47 | 29 | 4.2 | +2.12 | 3:54 | 6.67 |
| 49 19 39 06 +10 53 72 4 58 5 Buxar Arrah Shahabad 1 56 93 40 57 +16 36 70 5 54 9 Gya Gya 43 10 40 41 +7 69 68 0 59 6 Bankipore Patna 1 52 25 42 34 +9 91 74 8 63 8 Bhagulpore South Bhagulpore and Mongnyr. 63 27 50 10 +13 17 85 0 73 8 Naya Doomka Sonthal Pergunushs 1 | 3 | | | | 63 7 | +11.53 | 41'67 | 53'60 | 3.2 | 2.3 | -2.73 | 4.21 | 1.48 |
| 43'10 40'41 +7'69 68'0 59'6 Bankipore Patna | 1 | Shahabad | Buxar | 58.2 | 72'4 | +10.23 | 39.06 | 49.09 | 3.0 | 2'8 | -1.96 | 3 30 | 1.34 |
| 52-25 42-34 +9-91 74-8 63-8 Bhagulpore South Bhagulpore and Monghyr. 63-27 50-10 +13-17 85-9 73-8 Naya Doomka Southal Pergunualis | | | | W. S. Brief St. | Wash Co | | 13000 | 100000 | 8.8 | 2.8 | -2.40 | 2.83 | 0.48 |
| 63°27 50°10 +13 17 85°0 73°8 Naya Doomka Sonthal Pergunusias | 1 | | | | | | | | 41 | 3.8 | -1.01 | 8.25 | 1'34 |
| 40:43 46:94 +0:60 79:0 77:0 Hammiltonia (Canadiana) | | Mongnyr. | | | | | | | 4'3 | 5.0 | -0.03 | 3-20 | 8'17 |
| 47.01 46.95 +0.06 77.3 80.5 Ranchee Lohardugga | i | | | NEED TO A VISIO | | | E-24 (00) | | +5:3 | 8:3 | +6'46 | 8.75 | 10.21 |
| 40 43 40 45 Aug Sept Ranchee Lonarduggs | 1 | Hazaribagh | Hazaribagh | 0.0000000000000000000000000000000000000 | | 3 SH (2011) | A STREET, SHOWING | STATE OF THE STATE | 5.3 | 5.0 | -1 22 -1 00 | 2.72 | 1.03 |
| The state of the s | 4 | Lohardugga | Ranchee { | 807 | 85'0 | -4 01 | 46.04 | 41 43 | 5.5 | 6.2 | -0.03 | 3.31 | 3 31 |
| 33 94 50 24 -16 30 83 0 87 7 Chyebassa Singbhoom | |) | Sibsagar | 87:7 | 83.0 | -16:30 | 50-24 | 33'94 | 0.0 | 5.0 | -1.55 | 2.95 | 1.78 |

Table of Rainfall recorded at Statio

| | | | | | | | | | | | | 10 | | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | |
|------------|-----------------|---------------------------------------|------|------|------|----------------------|------|--------|------|------|------|------|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------|------|---|
| division. | District. | Station. | 1 | 2 | 8 | • | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 10 | | | | | | 19 | - |
| RISSA | Pooree | Pooree Khurdah | | | | | 1.24 | | 1 | 1: | 0.14 | 0711 | 0.20 | 2°25 1°62 | 4·89 2·63 | 1.29 | 0.06 | : | 0.81 | 0°85 0°85 | 0.08 | - |
| | 120 | Banpur False Point | 0.44 | *** | | | | | - | | 0.19 | | 0.16 | 8:14 | 1.67 | 0.17 | 0.05 | *** | 0.11 | 0.02 | 0'68 | Æ |
| | 4. | Gop Satpara | *** | *** | *** | 0.20 | 1.06 | | | *** | 0.20 | 0.15 | 0:25 | 3°20 4°05 2°64 | 2:46 0:35 | 0.52 | 0.05 | 0.53 | 2:34 | 0.10 | *** | 1 |
| | | Pipli | *** | | *** | | 0.47 | | | *** | *** | "" | 1.78 | 1.20 | 1.00 | 0.30 | 0.60 | 0.80 | " | | *** | 1 |
| | Cuttack | Jacatsingpore Banki Cuttack | | | *** | | | = | | | | 0.67 | 0.03 | 1'67 2'40 | 1:50 | 0.68 | 0.01 | ::: | 0.15 | 1'68 | *** | i |
| | | Kendrapara Jajpore | 0.13 | | | | 0.16 | | | *** | | 0.12 | 0.19 | 3.77 | 2.63 | 0 27 | | 727 | 1.40 | 0.06 | | ı |
| | | Dharmsalla Salipore | | | | | *** | | *** | | | 711 | 5.20 | 3.26 | 0.64 | | 7 | 0.30 | -:: | * | *** | J |
| | Balasore | Chandbali | 1.05 | | | 0,03 | | | | | 0.10 | | | 5'00 | 4.88 1.43 | 1.04 | | 1.91 | | 0.10 | | j |
| | | Bhuddruck Sorah Balasore | 1.00 | | | 0.04 | *** | | | | 0.03 | 0.01 | 1.30 | 2.90 | 1.00 | 0.32 1.83 | -:: | 0'94 | 0.20 | | *** | d |
| | | Jeliasore Baripodah | | | 0.25 | | 0.60 | | | | *** | | 0.36 | 1.58 5.65 | 2.30 | 3°54 0°28 | 1'20 | 1.80 0.46 | 0.80 | 0.03 | *** | l |
| OTH- WEST | Midnapore | Contai | *** | 4.0 | | 8'84 | 0.02 | | | | 1.05 | 0.54 | 0.40 | 2.40 | 1.72 1.49 | 9'40 4'80 | 0°22 4°75 | 1.78 | 0.60 | 0.01 | 0.02 | l |
| BENGAL. | | Saugor Island Tümlook Midnapore | *** | *** | | 0.55 | | | | | | | 1 | 0,20 | 0.83 | 1:33 | 0.20 | 0.70 | 0.10 | = | *** | I |
| | | Ghatal Kukrahaty | *** | *** | 0.02 | 0.52 | | | | | | *** | 1 | 0 02 1 53 | 1:34 | 5.76 | 0.09 0.34 0.25 | 0.15 | 0°18 0°06 0°59 | | 0100 | ı |
| | | Garbeta | *** | *** | | 0.18 | *** | ** | *** | *** | *** | 0.66 | "" | 0.26 | 1.20 | 1.80 | 0.68 | 0.55 | 1.02 | | 0.03 | ĺ |
| | 24-Pergunnahs | Diamond Har- bour. Canning Town | | *** | | 0.24 | 0.38 | | *** | *** | *** | | | | 0.87 | 2:67 | 4 02 | 4'58 | 0.71 | *** | | l |
| | | Alipore Jail Barrackpore | | | *** | 9.33 | | *** | | *** | 1.72 | | | 0.00 | 1'30 | 1'83 | 2·12 1·20 1·12 | 0'43 3'05 2'14 | 1°30 0°35 3°82 | 0.36 | | l |
| | | Dum-Dum Baraset | | | | 2.04 | 0.08 | *** | *** | *** | | *** | | 0.50 | 0°72 0°59 0°65 | 1.55 2.25 2.87 | 1.28 | 1.30 | 4°12 0°24 | 0.02 | *** | 1 |
| | Howrah | Howrah | *** | | *** | 0.77 | *** | *** | *** | | 0.03 | | | | 0.86 | 1.25 | 1.68 | 0.45 | 1.96 | | ** | 1 |
| | CLOWIED | Mohesreka (Oolooberiah). | | | | 0.18 | *** | | *** | | *** | 200 | *** | | 0.60 | 3 15 | 1.10 | 0.53 | 0.02 | 170 | *** | l |
| | Houghly | Serampore | | | | 0.18 | 0.71 |) ···· | **** | | | | | 0.53 | 0.97 | 1.51 | 1°20 1°16 | 1.25 | 2:23 | 0.03 | | I |
| | | Hooghly Jehanabad , | | *** | *** | 0.22 | *** | | | | | - | 0.22 | | 0.11 | 1'40 | 0.13 | 0.21 | 0.12 | *** | *** | l |
| | Burdwan | Culna Burdwan | *** | *** | | 1'44 | *** | *** | | :: | *** | 0.16 | 0.03 | 0.04 | 0.73 1.09 1.17 | 0.80 1.80 0.21 | 0.51 0.23 | 0.40 | 0.01 | | *** | ŀ |
| | | Rane-gunge | | 0.00 | 1.08 | 0.01 | *** | *** | *** | - | *** | | | 2.07 | 0.36 | 3.03 | 0.78 | 0.00 | | | 1'28 | l |
| | Bankoora | Mankur Bankoora | *** | ** | *** | | *** | | | *** | | | | 0:32 | 0.76 | 3.84 | 0.20 | 0.04 | 0.004 | | *** | l |
| | | Bishenpore | *** | *** | 0.21 | 0.14 | *** | | *** | 111 | *** | | 0.14 | 0.03 | 0'85 1'38 | 1'89 2'72 3'30 | 0.83 | 0.10 | 0.04 | *** | | l |
| | | Khatra Indas Kotalpore | 0.60 | *** | *** | 0°41 0°95 1°80 | *** | *** | *** | | | 0.02 | 0.00 | 0°18 0°83 | 1'49 6'33 | 1.71 0.79 | 1.13 | 0.53 | 0.02 | | *** | l |
| | Maraki ali | Anda Gangajalghati | | *** | 0.40 | | | *** | *** | *** | | | *** | 9:40 | 0.35 | 8:00 2:80 | 0.13 | 0.00 | | *** | *** | l |
| Mark B. | | Raipure Sonamukhi | 0.35 | *** | 0.14 | 0.17 | *** | * | *** | *** | | 0.15 | 0.81 | 0.15 | 6.82 | 1.56 | 0.03 | 0.10 | *** | | *** | į |
| | Reerbhoom | Bh. Soory | 101 | *** | 0.01 | 0.10 | | in the | | *** | | *** | 1'77 | | 0.05 | 3°06 2°79 | 1:39 2:55 | 0.10 | 0.09 | | 0.49 | ľ |
| | or other second | Rampore Haut Rolpur | | | | 0.75 | | | *** | | *** | *** | | *** | 0.85 | 4.20 2.16 4.71 | 1'64 0'60 1'30 | 0.70 | 0'06 | *** | *** | ľ |
| | Nuddea | Murarai Ranaghat | *** | *** | *** | 0.24 | *** | *** | *** | *** | *** | *** | | *** | 0.76 | 0.00 | 1:74 | 1.67 | 1.66 | 072 | *** | l |
| | Mudes | Kishnaghur Chooadanga | | *** | | 0.54 | | | | | | | | 0.30 | 1.01 | 0.49 | 0.22 | 2.83 | 2 68 0'85 | 0.09 | *** | l |
| | Marie Citar III | Meherpore Kooshten | *** | | | 0.67 | *** | - | *** | *** | | *** | *** | 0.75 | 0.49 | 0.00 | 0.88 | 2 40 | 1.71 | | *** | l |
| | Khoolna | Satkhira Bağirhat | | | *** | 0.46 | 0.16 | | | 0.01 | | | | 0.40 | 0:34 1:13 | 1.89 | 1.18 0.48 | 0°24 1°21 | 0.70 | | *** | l |
| | | Khoolna Nakipur | | | | 0:32 | | *** | *** | \ | 0.84 | | | 0.18 | 2:30 | 1'95 1'96 1'89 | 1°29 0°71 2°08 | 1'88 0'90 2'51 | 0:99 1:03 0:23 | 0.13 | ** | į |
| | Jessore | Rampal | *** | *" | *** | 0.71 | *** | 0.02 | 0.16 | | *** | | *** | 1.09 | 0.81 | 1'00 | 1.12 | 0.24 | 0.15 | 0.00 | *** | l |
| | 1000010 | Jessore Jhenidah | | | | 0.28 | 0.03 | 6.05 | | 0.08 | | | | 0.05 | 0'45 1'26 | 1.08 1.20 | 1.26 0.55 | 2.47 | 0186 | 0.58 | 7 | l |
| | | Magoorah Bongong | *** | | *** | 0.45 | 0.12 | | | *** | | *** | | 1.05 | 0.77 | 0°44 0°85 | 1.00 | 2.65 | 0.14 | 0.00 | *** | l |
| | Moorsbedabad | Kandi Berhampore | 0.43 | | 0.23 | 0.22 | | *** | | | | | | 0.08 | 0°68 0°29 | 1.18 | 2:10 | 0'34 | *** | *** | *** | l |
| | | Lalbach | 0.11 | | *** | | | | - | *** | | | 0.04 | 0°66 0°16 | 0.99 | 2.00 | 2°48 1°62 | 2.12 | 0.30 | 0.03 | | į |
| | April 1 | Jungipore ' | 0.50 | | 0.04 | | | *** | | 0.05 | II. | | | 0.15 | 1.80 | 7.02 7.02 | 2'45 | 1'60 2'40 | 0.12 | | | |
| | | Akhriganj Patkabari | *** | 0.10 | | 1:05 | | *** | | | | | 0.82 | 0.75 | 0.70 | 1'30 | 1'40 2'80 | 2°60 0°50 | 0.28 | | *** | 1 |
| ANY BENGAL | Chittagong | Gox's Bazar | | | | | | | *** | 0.10 | | | -,0 | 0.13 | 0.23 | | | .,,, | 0.35 | - | 1 | |
| | | Kutubdia Salkanya | | | | | 0.50 | | | 0.74 | 0.18 | | 0°47 0°50 | 0.02 | 1'35 1'25 0'55 | 0.14 | - | 0'40 | 0°88 0°14 0°65 | :: | 1.06 | |
| | Chittagong Hil | Rangamati | *** | *** | | *** | | | | 0.21 | | 0.30 | 0.22 | 0'95 | | | 0.12 | 0.48 | | | | 1 |
| | Tracts. | Ruma | *** | *** | | | *** | *** | *** | | *** | *** | 1'45 | *** | | | *** | *** | 2'05 | *** | | |

Bengal in October 1890.

| | 23 | 28 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 81 | Number of rainy days. | Average number of rainy days. | Total rainfall for the month. | Average rainfall for the mouth. | Heaviest rainfall during the month. | Total rainfall from 18t January 1890 up to 31st October 1890. | Average rainfall from 1st January up to 31st October, | Station, | District. | Meteorological division. |
|--|--------------------------------------|------------------------------|----------------------|---------|------------------|------------|----------|---|--|--|---|---|--|--|--|--|---|---|--|-----------------------------|
| 00 | ******* | | | | 0°80 0°50 | | | 0°15 0°10 | 0°80 1°89 0°98 0°15 1°08 | 1°24 0°03 1°90 0°03 0°24 1°45 0°13 | 11 9 10 11 10 8 8 | 11.2 10.9 7.9 9.2 P | 11'90 8'71 9'80 10'71 10'49 9'71 6'69 | 8.05 6.60 6.84 10.27 P | 4°39 2°63 3°94 4°70 3°20 4°05 2°64 | 69°09 69°89 67°96 63°17 | 51.85 56.98 51.31 66.52 9 | Poores Khurdah. Banpur. False Point, Gop. Satpara. Pipli. | Pooree | ORISSA. |
| | | | | | 1111111 | | 1011111 | 1*80 | 0.70 0.62 0.03 | 0°10 0°09 0°09 0°20 1°21 | 9 5 10 5 3 5 | 7.6 10.1 9.8 7.2 6.4 9 | 9'45 6'47 8'54 7'31 6'32 5'10 7'71 | 6'47 4'81 5'45 5'94 5'12 ? | 1.90 1.68 5.35 3.77 3.30 2.50 8.26 | 64'84 65'08 83'21 53'27 54'97 55'33 53'16 | 50°22 51°67 56°58 55°67 58°54 ? | Jagatsingpore Banki, Cuttack, Kendrapara, Jajpore, Dharmsala, Salipore, | Outtack. | |
| Company of the last of the las | | | | 1'68 | | | | ======================================= | 1*37 | 0°58 1°00 1°15 0°49 0°77 | 6 8 7 10 7 10 | 7'1 6'8 5'7 8'4 5'8 7'7 | 8'54 11'14 7'00 9'18 10'36 9'43 | 6'07 4'43 5'24 6'61 4'34 4'39 | 4'88 5'00 2'00 3'15 3'54 2'62 | 53°52 61°72 64°00 70°92 96°73 66°63 | 56'67 57'17 55'90 65'45 56'76 59'72 | Chandbali Bhuddruck, Sorah, Balasore, Jellasore, Baripodah, | Balasore. | |
| 9 8 | | 111111111 | | | | | | | | 4'47 1'48 0'38 | 12 12 7 6 8 7 6 | 7:0 9:8 4:1 6:9 5:3 ? | 21.61 21.76 7.10 5.10 1.98 10.25 3.68 | 8'09 9'06 4'19 4'92 3'32 ? 2'56 | 9'40 4'80 4'00 1'65 1'02 5'76 1'80 | 69'86 68'64 59'30 49'54 47'02 51'86 51'42 | 67.57 73.11 58.00 58.98 61.73 P 55.47 | Contai Saugor Island Tumlook. Midnapore. Ghatal. Kukrahaty. Garbeta. | Midnapore | SOUTH-WEST BENGAL |
| 3 5 16 18 | 0°49 0°04 0°46 | 0.15 0.02 | 0.03 | | 1 111111 | 1 11111 | 1 111111 | | | 012 | 10 9 10 8 9 9 | 7'4 9 8'8 6'8 7'1 7'1 7'2 | 11.77 14.03 9.68 8.41 12.04 11.17 10.89 | 5.05 9 4.30 8.33 4.28 4.36 4.23 | 5°28 4°58 2°12 3°05 3°82 4°12 3°10 | 64'51 67'78 64'82 53'81 58'13 57'08 65'67 | 66'01 - 9 62'55 55'14 59'40 58'15 61'85 | Diamond Har bour. Canning Town Alip re Jail. Barrackpore. Dum-Dum. Baraset. Buseerhat. | - 24- Pergunnah: | |
| 0 | 0.01 | | = | :: | | : | : | : | : | | 10 6 | 9.5 | 7.06 5 28 | 4.13 | 1.86 3.12 | 53°22 60°49 | 60.68 20.68 | Howrah Mohesreka (Oolooberiah) | The state of the s | |
| | 0.04 | 0'04 | = | ::: | = | ::' ::' | : | = | = | ::: | 10 9 7 | 8'4 7'8 5'9 | 8:41 6:17 3:21 | 4°10 3°95 4°16 | 2·23 1·38 1·49 | 57'04 53'93 54'60 | 57.62 59.14 62.09 | Serampore Hooghly, Jehanabad, | Hooghly. | |
| 177-127-127-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | 11111 | | 11111 | = | 1111 | 11111 | 1111 | 1181 | | 0°80 0°01 | 7 8 7 8 5 | 5°1 6°4 6°5 6°1 | 3:97 3:50 7:49 8:83 3:38 | 3.74 4.40 3.85 3.24 P | 1'44 1'30 2'83 3'02 1'62 | 57'52 67'33 67'27 62'18 49'69 | 52'06 56'45 55'19 53'83 P | Cuina Burdwan. Cutwa. Rancegunge. Mankur. | Burdwan. | |
| | 11111111111 | | нинни | | | 1111111111 | | | 1111111111111 | 1111111111 | 5 9 7 7 7 8 5 4 10 5 | 7°1 6°0 5°6 P | 4°76 4°66 5°92 6°02 5°74 6°68 9°20 3°87 6°13 4°51 | 4.52 2.87 3.67 3.92 P P P P P P | 3:34 1:89 2:72 3:30 1:71 2:38 3:00 2:80 2:12 1:96 | 60°01 53°11 60°56 41°06 61°95 70°53 56°01 65°40 54°76 54°39 | 55.79 57.54 53.38 58.68 9 9 9 9 9 | Bankoora Bishenpore. Maliara. Knatra. Indas. Kotalpore. Anda. Gangajalghati. Raipore. Sonamukhi. | Bankoora. | |
| THE STATE OF THE STATE OF | 11111 | 11111 | 11111 | | | 11111 | | 11111 | 11111 | 0.01 0.40 | 9 8 6 4 3 | 6.6 4.5 6.0 5 | 6.37 9.03 8.08 4.03 7.11 | 3.59 3.69 1 | 8.06 2.79 4.50 2.76 4.71 | 63.61 62.69 73.38 58.83 60.09 | 55'56 57'76 56'01 | Bh. Soory Hetampore. Rampore Haut Bolpur. Murarai. | | |
| | 0.06 | 0.18 | 0.08 | 11111 | 11111 | | 11111 | 11111 | 11111 | 11111 | 8 9 8 7 8 | 5°5 7°1 6°1 5°9 7°2 | 7:50 7:67 8:27 13:85 6:90 | 3'64 4'53 4'35 3'51 4'78 | 1.74 2.68 3.80 6.30 2.40 | 58'21 63'16 51'01 61'61 58'41 | 54.65 55.10 59.72 55.90 61.66 | Rangahat Kishnaghar. Choodanga. Meherpore. Kooshtea. | Nuddea, | |
| | 0°78 1°02 1°08 6°95 1°31 | 0.82 1.50 0.03 0.78 | 111111 | 11111 | : | 11111 | 14111 | 11111 | | | 11 6 11 7 10 | 7.6. 5.6 6.9 P | 7'04 6'35 7'99 15'18 11'44 | 4.45 5.03 4.07 P | 1'89 1'50 1'83 6'95 2'51 | 63°97 66°92 58°00 79°18 68°72 | 68°56 68°56 64°09 P | Satkhira Bagirhat. Khoolna. Nakipur. Rampal. | Khooine. | |
| The state of the s | 1°13 0°54 0°40 0°42 0°45 | 6.35 1.79 0.32 1.03 | 0.08 0.04 0.03 | | 11111 | 111111 | 111111 | 11111 | | | 11 13 9 9 | 6°9 8°0 6°5 7°3 5°7 | 12*01 9*76 5*95 5*19 8*50 | 3°14 5°36 4°58 3°75 4°60 | 6°35 2°47 1°50 1°20 2°65 | 59°91 68°08 59°09 50°39 50°63 | 54°22 66°55 61°60 59°27 58°33 | Narail Jessore. Jhenidah. Magoorah. Bongong. | Jeasore. | |
| | 1111111 | 0.00 | | 1111111 | | 1111111 | 1111111 | | 1111111 | 0°89 0°42 0°80 0°40 | 6 9 10 7 9 6 | 6.2 5.7 6.1 6.8 5.9 6.3 | *4*81 7*61 7*59 6*85 8*46 9*30 | 3:70 5:20 4:26 4:92 3:49 4:13 | 1°36 2°29 2°49 2°15 2°95 2°45 | 67:29 61:20 64:33 59:66 54:21 69:74 | 54'60 54'94 54'78 54'97 58'24 54'48 9 | Kandi Berhampore. Lalbagn. Azimgunge. Juagipore. Lalgola. Jaigunge. | Moorshedabad, | |
| | 0.20 0.20 0.20 | 0°95 0°31 2°27 | 0°35 0°22 0°54 | 0.09 | 0.31 | 0.46 | 111 | | | 0.20 | 8 7 9 10 | 8.9 | 3·39 4·38 | 7·88 5·96 | 2.60 2.80 0.95 1.35 2.27 | 184°58 115°99 | 141'04 103'41 | Akhriguni. Patkabari. Cox's Bazar Chittagong. | Cuittagous | EAST BEHAR. |
| | 0.20 | 0.50 | | 0.19 | 0°36 | | 11 11 | | | 11 | 12 6 10 3 | 10.4 9.6 | 3.35 3.35 | 9 9 6.85 7.89 | 9 97 0 75 0 95 2 05 | 117°77 87°66 81°85 85°65 | P P 98:69 85:54 | Kutubdia. Satkanya. Rangamati Ruma. | Chittagong Hill Tracts, | |

Table of Rainfall recorded at Stati

| | 10 | | | | | | | | | | | 1 1/4 | | | | | | | | | |
|-----------------------------|------------------------|--|-------|--------------------------------------|--------------------------------------|--|------------------------------|------|------------------------------|--------------|----------|--------|----------------------|--------------------------|--|--|--|--|--------------------------------------|--------------------------------------|--------------|
| Meteorological division. | District. | Station. | | , | 3 | ٠ | 6 | 6 | , | 8 | 9 | 10 | 11 | 19 | 18 | 14 | 15 | 16 | 17 | 18 | 10 |
| EAST BENGAL | Backergunge | Patuakhally Perozepore | | | | 1.00 | 0.25 | | :: | 0.20 | - | 1 | = | 0°87 0°21 | 4°50 0°86 | 1.00 0.91 0.78 | 0°27 0°75 0°15 | | 1.55 0.64 0.19 | 0.02 | 1 |
| | | Burrisal Bhola Gournaddi Bauphal | | | = | 0.43 | 0°58 0°27 0°62 | 0.06 | : | 0.26 | - | 0.10 | 0"11 | 0°10 0°55 0°86 | 2:33 2:35 2:35 3:50 | 0.0 | 0.60 | 0'48 | 0.67 | 0.30 | 0:30 |
| | Noakholly | Nonkholly Fenny Harishpore Ramganj | = | | = | | | 1111 | 11.0 | 0 31 0 10 | 1.05 | | 0 08 0 15 | 2.20 | 4°75 1°95 2°28 2°00 | 0°35 0°55 | | 0°28 0°3(0°0) | 0.18 | 0.20 | 0.50 |
| | Furreedpore | Madaripore Furreedpore Goalundo | - | | 0.16 | 0.13 | = | = | | 1 | | - | = | 0°25 0°57 | 2·30 0·13 | 0:73 0:15 | 1:22 0:47 1:50 | 1:45 0:95 0:8 | 0°03 0°26 | 1118 | 1 : : |
| | Daces | Munshigunge Dacea Naraingunge Manickgunge Joydebpore | | | 0'84 | 0.50 1.15 0.30 0.38 0.83 | | | | | 1111 | | 0°05 0°13 | 0°11 0°85 0°46 | 0.26 0.41 0.29 1.21 0.30 | 0.52 0.11 0.78 0.12 | 0°20 6°10 0°28 0°54 0°06 | 0°82 0°60 | 0 20 0 05 0 01 | 0°11 0°20 6°38 0°67 0°32 | 11111 |
| | Hill Tipperah | Agartola | | | | 0.63 | | | | *** | | | | | 1.22 | | | | | | |
| | Tipperah | Comilia Chandpore Brahmunberia Ramchandra- | Ξ | | :: | 0.07 0.18 0.14 | | 0°21 | 0.03 | | | = | 0.17 | 0.94 | 2.57 1.05 0.30 0.46 | 0.25 1.05 0.35 | 0.03 | 0°85 0°1 9°24 | 0.30 0.15 0.51 | 1°50 0°75 1°03 0°87 | 0°10 0°77 |
| | | pore, Nasirnagar Daudkandi Kasba Laksham | - | | | 0.40 | 1111 | 1111 | | | | | | 0.27 | 0°79 0°05 1°82 | 0°15 | 0.02 | 0.04 | 0°50 0°27 | 0.30 | 1111 |
| | Mymensingh . | Kishoregunge Atin (Tangail) Mymensingh Jamalpore Netrokona Subornakhally Durgapore | *** | | 0.68 | 0.65 0.68 0.56 0.05 2.52 | 0°03 0°52 2°70 | 1.93 | 13 2 1 1 1 1 | | | | 0°46 0°82 | 0.70 0.70 | 0°21 1°76 0°15 0°73 0°60 0°66 0°69 | 0°06 0°80 0°59 8°20 0°80 0°50 1°30 | 0°57 0°44 1°59 1°18 0°65 8°40 1°42 | 1'20 1'48 2'34 3'72 0'87 2'96 0'20 4'70 | 0°21 0°57 0°37 0°08 | 0°36 0°55 2 12 0°45 0°22 | 6.76 |
| NORTH BREGAL | Pubna | Sherpore Town Dewanganj Pubna | - | | 0.55 | 0.25 | 0'14 | | | | :: | 0'46 | | | 0.67 1.42 6.48 | 6.20 | 1'80 | 1.50 | 0 51 | 0.19 | 1 1 |
| | Rogra | Serajgunge Sherpore Nowkhills | | | - | 0.03 | - | | | - | - | | 0.36 | | 0°31 0°50 | 1:48 3:41 0:72 | 1.16 2.10 2.77 | 3'74 5'27 | 0.01 | 0.04 | |
| | Rajshahye | Bogra Panchbibi Beauleah | 0.03 | = | 0.15 | 2*08 | 0.07 | - | | - | - | = | 0.01 | 0.37 | 0.98 0.98 2.03 | 2.18 | 3.32 7.28 | 3'3± 2'00 1'87 | 0°23 0°31 | 0.15 | - |
| | | Nattore Naogaon Lalpore Manda | | 0.40 | 0.30 | 0.08 | - | | = | :: | - | 1.70 | | 1.63 0.20 0.20 | 0°20 0°62 0°93 5°20 | 1.88 3.67 0.90 3.10 | 1'45 2'16 2'80 3 17 | 2°35 1°10 0°85 0°20 | 3°20 0°48 | 0.48 | 11 1 1 |
| | Maldah | Maldah Chanchal Gajol Sibganj | | : : : | | 0'12 | 0.05 0.10 | = | | | | 1111 | 1 : 1 | 0.12 | 0°17 0°37 0°90 0°79 | 2.95 1.38 1.50 2.44 | 2°84 6°25 2°88 3°22 | 0.70 0.18 1.00 4.80 | 0°45 0°15 0°19 1°55 | | |
| | Dinsgepore | Mohadebpere Churamon Raigunge Dinagepore Baloorghat Thakurgaon | 11.0 | 111111 | | 0.16 | 0.40 | | | | | 111111 | 111111 | 0°15 | 2.00 0.65 0.43 1.41 | 4.50 1.95 5.60 1.70 2.20 12.30 | 1°20 6°68 7°52 10°70 6°04 8°22 | 0°50 0°86 0°65 1°55 1°11 0°27 | 0°14 0°38 0°26 | 0.09 | 111111 |
| | Rungpore | Bhawanigunge (Gyabanda). Rungpore | | - | 0.92 | 1:17 | 0.20 | | | | | - | - | | | 2.05 3.20 | 13°30 | 2.00 | 0.70 | 0.20 | 1 1 |
| | | Kurigram Bagdogra (Nilphamari). Ulipore | = | = | 0.08 0.42 | 0.53 1.72 0.58 | 0.07 | 1 | | - | | I | - | | 0.25 | 2.25 2.25 2.82 | 10.10 | 0°85 1°71 1°27 | 0.11 | 1 1 1 | 1 1 1 |
| | Julpigoree | Julpigoree Alipore Doar Falacotta Debiganj Bhogotpore | 11:11 | 1.02 1.01 | 0.21 1.18 1.68 0.86 0.32 | 0.86 1.06 2.20 | 3°13 0°75 3°22 | 1 03 | 0.24 | 0°05 | 11 11 11 | | | 11111 | 111111 | 2:45 2:61 4:22 2:06 2:12 | 6.26 5.81 5.20 6.45 4.50 | 3.61 2.92 2.17 2.65 2.79 | 0°72 0°15 0°14 1°00 | 11111 | 11111 |
| | Cooch Behar | (Nagrakatta). Dinhatts Cooch Behar Mickilgunge Matabhanga | 1111 | 0.05 0.16 0.19 | 0°29 0°50 | 0°12 0°50 0°02 | 0°85 0°40 1°89 1°13 | 0.02 | | 1111 | ::: | | | 0.09 | 0.08 | 3.00 4.30 1.92 3.04 | 12:11 5:81 5:64 6:57 | 1.05 1.30 3.00 1.94 | 0.08 0.31 0.08 | 0'10 | |
| | Darjeeling Hill | Buxa Siliguri Darjeeling Kalimpong Kurseong | 0.01 | 0°84 1°63 0°25 0°44 0°10 | 0°48 0°27 | 3:87 1:15 0:08 | 3.00 0.12 0.16 | 0.01 | 0°19 0°14 0°05 0°04 | 0.00 | | 111111 | 0.15 | 0°25 0°18 | 0.02 | 1.87 1.24 0.76 1.14 1.48 | 6.00 5.43 6.37 6.20 5.60 | 2:31 1:85 1:59 1:44 2:70 | 0°20 1°23 1°45 2°11 2°55 | 0°04 0°12 0°64 0°40 | 11111 |
| North Sehar | Purneah | Kissengunge Arrareah Purneah Gondwara Balarampore Matiari | | | 0.41 | 0°12 0°11 | 0.14 | | 111111 | | :::::: | | | 0.10 | 1'04 1'50 1'37 | 2.09 1.70 1.50 3.30 4.20 2.50 | 9°75 3°92 4°28 0°33 5°30 0°90 | 1'16 0'40 0'37 0'27 1'05 | 0.06 | 111.11 | 111111 |
| | North Bhagul- pore. | Kaliaganj Maddapore Soopool Protabganj | | 0.53 | 0.00 | 0°82 0°75 | 0.06 | | | 111 | | 111 | | 1111 | 1111 | 1°20 1°02 0°46 1°55 | 1 80 0 89 0 26 | 0.09 | 0'24 | 1111 | 111 1 |

Bengal in October 1890 -continued.

| 22 | 23 | 2. | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Number of rainy days, | Average number of rainy days. | Total rainfall for the month. | Average rainfall for the month. | Heaviest rainfall during the month. | Total rainfall from 1st January 1890 up to 31st Oct. 1890. | Average rainfall from 1st January up to 31st October, | District. | Station. | Meteorologies division. |
|--|---|------------------------------|---|---|---|----------|---------|---|------------------|---|--------------------------------------|--|---|--|---|---|---|----------------------------|----------------------------|
| 0°88 1°36 0°96 1°11 1°45 1°90 | 0°17 1°20 0°56 0°66 | 0.03 | 1111111 | | | | | | | 10 9 13 9 6 | 8'8 7'3 8'9 8'9 ? | 9°49 5°17 7°07 6°81 5°49 8°94 | 6°11 5°49 4°78 6°26 9 | 4°50 1°36 2°12 2°33 2°35 3°50 | 85.61 65.77 73.24 73.53 52.06 75.57 | 95 20 77 94 77 94 90 18 | Patuakhally Perozepore. Burrisal. Bhola. Gournaddi. Bauphal. | Backergunge. | EART BENGAL |
| 2°50 0°48 2°50 1°43 | 2.00 | 0.12 | 0.08 0.60 0.08 | 2°00 0°40 | | 1111 | | | ::: | 10 10 9 6 | 9°0 8°8 P P | 10°08 7°53 10°90 4°80 | 7.68 6.14 9 P | 4.75 2.00 2.50 2.00 | 105.02 114.61 177.42 74.25 | 110°26 117'85 P | Noakholly Fenny. Harishpore. Ramganj. | Noakholly. | |
| 3.02 | 2°28 0°18 1°21 | 1 | - | *** *** | = | = | | :: | | 9 9 10 | 7'5 7'2 6'6 | 8.71 7.38 6.49 | 4.02 4.32 4.60 | 2°30 3°05 1°50 | 51.83 59.01 56.56 | 67.05 65.35 62.52 | Madaripore Furreedpore. Goalundo. | Furreedpore. | |
| 0°20 0°11 0°15 0°16 0°05 | 2.76 2.22 1.6 1.98 | 0°09 0°32 0°18 0°67 | 0°04 0°09 0°87 | | | | 11111 | | = | 10 12 7 13 13 | 6'4 7'2 5'3 7'0 9 | 4·17 6·06 3·26 7·23 6·35 | 5.24 5.09 4.30 3.78 | 2.70 2.22 1.60 1.95 1.67 | 67°17 71°21 70°90 69°79 79°33 | 84°15 72°17 73°61 61°31 | Munshigunge Dacca, Naraingunge, Manickgunge Joydebpore, | Dacca. | |
| 0°60 0°78 0°86 0°48 | 0.76 | 0.15 | 0.97 0.05 0.18 0.27 | 0.02 | | | | | | 13 10 11 11 | 7·8 6·9 7·4 P | 8°21 5°12 5°37 8°45 | 4'45 5'24 6'48 4'69 P | 2°57 1°05 2°30 4°58 | 74:90 67:28 69:02 85:97 | 97.14 87.35 78.79 F | Agartola Comilla Chandpore, Brahmunberin, Ramchandra- pore, | Hill Tipperab Tipperah. | |
| 0.25 | 1 00 0 20 1 40 | 0.02 | e'70 | | | | | ::::::::::::::::::::::::::::::::::::::: | :: | 4 9 5 2 | 9 9 9 | 1'80 5'21 0'84 3'22 | 9 9 9 | 0°60 1°05 0°27 1°82 | 64'41 35'86 61'22 80'60 | 9 9 9 | Nasirnagar. Daudkandi. Kasba. Laksham, | | |
| 0.10 | 0.62 | 1'11 3'15 0'20 | 0.40 | | | 11111111 | | | | 7 12 11 8 8 8 10 9 | 7-9 5-7 8-2 6-0 5-6 P | 6°10 8°95 8°88 10°29 10°92 6°86 11°83 9°48 11°02 | 5°18 4°90 5°39 4°86 7°27 P | 1.93 1.76 3.15 3.72 3.20 3.95 3.40 4.75 6.50 | 81·10 66·98 91·57 92·80 108·40 67·57 133·25 83·00 81·84 | 82.62 63.69 91.85 75.32 95.20 9 | Kishoregunge. Atia (Tangail). Mymensingh. Jamaipore. Netrokona. Subornakhally. Durgapore. Sherepore Town Dewanganj. | Mymensingh. | |
| 0.05 | 0.04 | | 0.01 | C | | - | | | | 10 11 | 7.0 6.0 | 4°14 7°11 | 4*57 4*29 | 1.29 2.87 | 60°82 74°18 | 63.76 60.44 | Pubna Serajgunge. | Pubna | NORTH BENG |
| | 0.02 | 0.11 | | :: | = | 1111 | | ; ; ; | | 7 7 7 8 | 5.4 6.0 6.4 5.1 | 10:18 10:18 12:06 13:05 | 3.95 4.76 4.53 3.90 | 3°74 5°27 4°35 7°28 | 81°37 87°42 84°68 88°52 | 63°34 61°29 74°81 60°25 | Sherpore Nowkhilla. Bogra. Pancabibi. | Bogra. | |
| | 0.06 | | | = | 1 | | | :::: | 0°12 0°07 | 10 10 7 9 7 | 7.4 5.3 3.6 P | 10'48 . 10'00 9'68 8'66 12'97 | 4.77 4.26 3.21 F | 2°18 3°20 8°67 2°80 5°29 | 75°04 96°08 63°93 58°42 50°23 | 58'09 61'87 58'05 Y | Beauleah Nattore, Naogaon, Lalpore, Manda, | Rajshahye. | |
| | 1 | | = | :: | | 1111 | 11111 | | ::: | 8 5 6 6 | 6.2 2.0 5.0 5.0 | 6'87 8'33 6'52 13'10 | 4°23 8 02 9 | 2:95 6:25 2:83 4:80 | 66.86 62.80 78.65 64.51 | \$8.33 \$8.33 \$ | Maldah Chanchal. Gajot. Sebyanj. | Maldab. | |
| 111111 | 111111111111111111111111111111111111111 | | | ::::::::::::::::::::::::::::::::::::::: | | 11 13 11 | 1111111 | 111111 | :::::: | 6 5 3 6 6 5 | 4'9 4'2 4'8 5'5 4'0 | 8.51 9.78 13.77 14.78 10.39 17.31 | 3.00 3.03 3.56 4.72 4.17 | 4°50 6°68 7°52 10°70 6°04 12°30 | 71.77 83.48 95.08 94.01 85.00 116.36 | 59:86 58:50 62:09 74:22 58:29 -? | Mohadebpore Churamon, Raigunge, Dinagepore, Baloorghat. Thakurgaon. | Dinagepore. | |
| 1 112 1 | | | | - | 111111111111111111111111111111111111111 | 1 111 | | | - | 6 6 8 7 | 5°0 6°2 4°1 5°7 | 20°20 19°95 17°67 16°37 | 4'83 4'76 4'18 3'89 | 13:30 14:04 10:10 9:75 12:26 | 135°26 105°44 105°11 116°41 | 68:54 88:34 86:25 90:30 | Bhawanizunge (Gyabanda). Rungpore. Kurigram. Baxdogra. (Nilphamari.) Ulipare. | Bungpore. | |
| **** | | 11111 | | ::::::::::::::::::::::::::::::::::::::: | | 0.00 | 0.18 | | HHILL | 8 6 6 6 12 | 6.0 5 6.0 | 17.78 18.29 14.27 16.59 13.22 15.49 | 5°25 | 6'26 5'81 5'20 6'45 4'50 | 166'80 199'88 156'98 121'84 193'30 | 128'10 ? ? ? ? | Julpigoree Alipore Doar. Falacotta, Debiganj, Bhogotpore | Julpigoree. | |
| 1111 | 1111 | 1111 | : | = | | 1111 | 11111 | :::: | 4111 | 7 8 8 8 10 | 6.8 5.5 5.4 7.0 | 16'98 12'49 18'01 14'14 | 4:74 5:21 4:21 5:2+ | 12.11 5.81 5.64 6.57 | 140'40 182 85 158'64 185'42 | 110.60 129.35 117.61 124.16 | (Nagrakatta.) Dinhatta Cooch Behar Mickligunge. Matabhanga. | Cooch Behar. | |
| 11111 | 11111 | | ======================================= | | 0.29 | 0.01 | 0.69 | | 11411 | 15 10 9 12 9 | 10°3 5 9 7°6 5°6 9 | 20'68 13'86 10'62 12'44 13'01 | 9°96 5°47 6°10 5°01 | 6.00 5.43 6.37 6.20 5.60 | 223'64 186'27 157'86 129'22 200'46 | 212-20 119'17 120'18 94'41 P | Buxa Siliguri. Darjeeling. Katimpong. Kurseong. | Darjeeling. | |
| 1111111 | | | | | | :::::: | | 1111 | : 11111 | 6 4 6 5 5 8 3 6 | 4.2 3.4 4.9 P P | 13°32 6°43 6°68 5°04 12°75 4°77 7°40 | 8·13 5·33 5·76 P | 9.75 3.92 4.28 3.80 5.30 2.50 4.00 | 110.61 86.31 85.17 102.83 125.25 | 74°52 68°21 63'93 2 9 9 | Kissengunke Arrareah. Purneah. Gondwara. Balarampore Matturi. Kalian. | Purneah | NORTH BERR |
| *** | 111 | | | ** | | - | 7. | | - | 4 4 3 | 4.6 | 3.59 3.59 3.99 | 4.32 2.72 9 | 1'30 6'89 1'55 | 62.97 63.10 51.12 | 58'57 50'43 | Kaliagang. Maddapore Soopool. Protabganj. | North Bhagul | |

Table of Rainfall recorded at Stati

| leteorological division. | District. | Station. | 1 | 2 | 3 | • | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | The second |
|-----------------------------|------------------------|---|--|--------------------------|--------------------------|--------------|---------|-----------|-----------|--------------------------|---------|--------------|----------------------------------|--|--|---|--|--|--------------------------------------|--------------|-----------------------|
| ORTH BEHAR | Durbhungs | Tajpore Durbhunga Madhubani Bahera Roshera | | | | | | 11111 | | | | | | | | 0°62 1°85 1°01 1°62 | 0°07 0°24 0°59 | 0.04 0.13 0.53 0.55 | 0°18 0°26 | 0.05 | というない とのできる |
| | Mosufferpore | Sitamarhi Mozufferpore Hajipore Paru Mahua | | | 0.07 | :: | | = | 11 11 | | | | | 111111 | 0.22 | 0°53 0°67 0°82 0°11 | 1.03 0.20 0.18 4.00 0.09 8.10 | 0.87 0.27 0.46 2.00 | 0°11 0°12 0°10 | 0°23 0°34 | The State of the last |
| | Chumparun | Pupri Motihari Bettiah Bagaha Burhurwa | | 0.08 | 0.54 | | 11111 | | | 1111 | | | | 11111 | | 0.15 | 1'37 4'13 1'27 3'00 1'19 | 0°30 1°81 3°16 0°04 0°72 | 0°17 0°24 0°17 0°23 0°11 | 0°02 0°05 | |
| | Sarun | Gopalgurge Sewan Chupra | | Ξ | = | = | = | | | = | :: | = | = | | 0'17 | 0°63 0°64 1°85 | 0.04 | 0.10 | = | Ξ | |
| oth Brhad | Shahabad | Buxar Dehree Bhubooah Sasseram Arrah Mohaniah | | 0'03 | 11111 | | 11111 | | | | | | | | | 0°34 0°09 0°31 0°35 0°04 | 1.24 0.26 0.59 2.11 | 0713 | 11111 | 11111 | |
| | Gya | Aurungabad Gya Nowadab Jehanabad Arwal Daudnagar Sheerghati Rajauli | 0.03 | 1111111 | | | | | 1111111 | | | 11111111 | | 0.07 | 11117 1111 | 0°18 0°43 0°22 | 0°44 0°15 0°13 | 0.01 | 11111 | | |
| | Patna | Pakri Bara- wan, Patna Dinapore Barch | 1.00 | 0.07 | | | 1 1111 | 1111 | 1111 | 0.50 | | | 1.00 | 11111 | | 0°60 0°25 0°47 1°00 0°23 | 0°40 1°35 0°17 0°10 0°56 | 0°15 0°58 0°10 0°47 0°05 0°04 | 0.04 | | |
| | Monghyr | Bickram Hilsa Begooserai Monghyr Jamui Gogri Sheikpura | | 072 | | 0.08 | 1111 | 1111 | | | 11 1111 | 11 1111 | 0.45 | | 0.53 | 0°13 1°50 0 96 1°49 1°80 1°45 | 0°33 0°27 0°98 0°19 2°54 | 0°48 0°04 0°09 0°52 | 0.03 | 11111 | |
| | South Bhagul- pore, | Bhagulpore Banka Kolgong Bongaon | 111 | 0'26 | | 111 | 111 | | 111 | 0.25 | *** | | = | : | 0°40. 1°03 0°43 | 1°28 1°75 1°81 | 3°03 0°54 2°53 | 0°64 0°03 0°25 | 0.06 0.05 0.05 | 1111 | |
| | Southal Pergunnahs. | Rajmehal Godda Pakour Nya Doomka Deoghur Jamtara Mohagama Nanihat | 111111 | 0°20 0°34 | 0°16 0°32 | 0.09 0.15 | 0.11 | | 6.01 | 0°95 0°98 0°70 | | | 0°03 0°93 0°93 0°12 | 0°15 0°06 2°25 1°24 0°36 | 0°53 1°40 1°88 0°55 0°33 0°16 1°12 1°65 | 2°92 2°25 4°44 6°25 1°05 12°04 1°15 1°60 | 4°48 0°68 3°56 2 33 1°09 5°25 0°86 | 0°29 0°10 0°73 0°05 0°01 | 011 0.05 0.14 | 1 | |
| TUTIA NAG- | Hazaribagh | Pachamba (Giridi). Hazaribagh Semtagurah Mahudi Hills Jhoomrah Hills Barhi Chatra Karaydeha | 0°07 0°47 0°10 0°87 1°10 0°34 | 0.06 0.10 5.20 | 0.08 | | | HIMIN I I | | | | 0.12 | 1.71 0.05 0.04 1.03 | 0°10 0°60 0°09 0°04 | 0°17 0°43 0°30 1°10 0°58 | 0°79 0°25 0°20 0°20 2°63 0°37 1°21 | 0°14 0°11 0°72 0°35 0°15 | 0.11 | 0.03 | 1 11111111 | |
| | Lohardugga | Ramghar Lohardugga Ranchi Palamow Silli Balumat Hoseinahad Garwah | 0°40 0°70 0°84 0°43 1°10 | 0.40 | 0.07 | 1710 | 1111111 | 1111111 | 1 1111111 | | | 0.00 | 0'11 1'10 | 0°57 0°20 | 0°48 0°48 0°50 0°40 | 0.33 0.66 0.46 0.90 0.09 | 0°08 0°09 0°70 | | | | |
| | Singbhoom | Chyebassa Chakradhar- pore, | 0.28 | 2 | | 72 | = | : | = | = | | 0.28 | Ξ | 0.12 | 0°40 0°25 | 0.40 1.30 | 0.05 | Ξ | 7 7 | 11 | |
| | Manbhoom | Ghatsila Baharagura Purulia Gobindpore | 0.08 | 11 11 | 1°35 0°07 | | | :: | 11 11 | 17 11 | | 11 | 0.03 | 0.66 | 1.85 0.75 1.20 0.08 | 0.35 0.45 0.60 2.67 | 0.18 0.13 | 0.34 0.41 | 11 11 | 11: 11 | |
| USEA MISSIN | | Raghunath- pore. Barrabhoom Jhalda | 2"33 | | 3.02 | | | 1 | - | | - | 0.50 | 1'36 | 0.15 | 2.72 6.80 0.61 | 0.62 0.40 1.07 | 0°38 | | | 111 | |

ngal for the month of October 1890 -concluded.

| 25 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 81 | Number of rainy days. | Average number of rainy days. | Total rainfall for the month, | Average rainfall for the month. | Heaviest rainfall during the month. | Total rainfall from lstJanuary 1890 up to 31st October 1896. | Average rainfall from 1st January up to 31st October. | Station. | District, | Meteorological division. |
|----------------------------|---|---------|------------|--------|---------|---|-----------------|----------|---------|---------------------------------------|--|---|---|---|---|---|---|------------------------|-----------------------------|
| | 11111 | | 14114 | | 1 11 11 | | 11111 | 11111 | | 8 5 4 9 | 3:1 3:6 3:4 ? | 0.73 2.37 2.09 1.84 | 3:00 2:82 2:48 ? | 0°62 1°85 1°61 1°62 | 59 71 59 85 65 10 53 35 | 45°10 47°70 47°75 P | Tajpore Durbhunga. Madhubani. Bahera. Roshera. | Durbhungs | North Behar- conold. |
| | | 111111 | 111111 | | | 1111111 | | | | 5 4 4 2 4 3 3 | 3.3 3.6 4.4 ? | 2*61 1*56 1*19 6*00 0*76 4*50 1*84 | 2.65 2.87 3.76 P | 1°03 0°67 0°46 4°00 0°34 2°30 1°37 | 54°96 56°89 50°00 72°01 46°49 55°38 52°02 | 45°43 43°83 43°96 P P | Sitamarhi Mozufferpore. Hajipore. Paru. Mahua. Siuhar. Pupri. | Mozufferpore. | |
| | | | 111 | 1111 | | 1111 | 1 1 1 | | 1111 | 4 5 4 5 | 2.8 2.8 | 6'46 4'89 3'39 2'12 | 3.28 3.38 3.38 | 4°18 3°16 3°00 1°19 | 78'89 65'82 60'05 | 48:03 51:03 7 | Motihari Bettiah. Bagaha. Burhurwa. | Chumparun. | |
| | - | | | | | | | : | :: | 3 2 2 | 3.8 3.8 | 1.67 (0.81 1.95 | 4:37 3:81 2:93 | 0.04 0.64 1.85 | 53.06 60.27 49.35 | 46°13 45°40 39°85 | Gopalgunge Sewan, Chuprah, | Sarun, | |
| | 1 1 1 | | 11111 | | 111111 | | 111111 | | | 3 3 1 2 5 | 4.0 3.6 2.5 3.4 4.7 | 1.80 0.38 0.31 0.94 3.29 | 3°20 2°58 3°11 3°48 2°94 | 1.24 0.26 0.31 0.59 2.11 | 53 22 43 54 41 56 45 33 67 19 | 39.05 41.42 42.29 41.83 44.60 | Buxar Dehree, Bhubocah, Sasseram, Arrah, Mohaniah, | Shahabad | SOUTH BEHAR. |
| | | 1111 | 11111 | 14141 | 11111 | 11111 | | | | 2 4 1 4 | 3°2 4°3 3°9 8°9 | 0.51 0.34 0.43 0.42 | 2:64 2:34 2:50 3:33 | 0°44 0°16 0°43 0°23 | 59°85 61°28 55°12 53°81 | 43'56 41'26 41'89 41'46 P | Aurungabad Gya. Nowadah, Jehanabad, Arval. Daudnagar, | Gya. | |
| | | 1111 | | 1111 | E I | 1111 | | 1 | = | 2 3 5 | P P | 1.67 0.80 2.97 | P | 0°95 0°34 1°00 | 36°81 45°62 44°24 | P 9 7 | Sheerghati. Rajauli. Pakri Bara- wan. | | |
| | 1 1 1 1 1 1 1 | | 111111 | 111111 | 1111111 | | | Ent His | | 3 5 5 4 4 4 4 | 4'5 3'7 4'6 3 6 9 | 1.02 1.97 1.11 1.25 1.38 1.07 | 2.81 3.00 3.06 3.03 | 0°58 1°35 0°47 1°00 0°56 0°48 | 52'05 53'50 47'26 44'68 59'30 50'67 | 41°51 42°18 43°89 42°00 | Patna Dinapore. Behar. Barrh. Bickram. Hilsa. | Patna. | |
| | | 11111 | PETER. | 11111 | 11111 | 17111 | | | 1 11111 | 4 6 4 2 2 | 4·2 4·7 3·8 P | 2°26 2°36 2°14 4°34 1°97 | 3.00 3.81 3.00 | 1'50 0'98 1'49 2'54 1'45 | 46.02 56.53 60.32 78.89 47.76 | 42.06 45.37 44.98 P | Begooserai Monghyr. Jamui. Gogri. Sheikpura. | Monghyr, | * |
| ****** ****** ****** | 1111 | 1141 | :: | :: | 11 | | = | II. | : | 5 6 6 | 4'4 4'4 P | 5°41 3°63 5°77 | 3.93 3.43 9 | 3.08 1.75 2.53 | 62°97 45°78 63°96 | 47.39 45.49 P | Bhagulpore Banka. Kolgong. Bongaon. | South Bhagul- pore. | |
| | 0.00 | | 1 11111111 | | | 111111111111111111111111111111111111111 | 1 1 1 1 1 1 1 1 | | 0°11 | 7 8 13 9 7 6 4 3 | 4.6 4.2 6.1 6.7 5.6 4.7 | 8°59 5°66 12°19 12°35 4°18 18°25 3°28 3°66 | 3.03 2.94 4.45 3.88 4.36 3.03 ? | 4·48 2·25 4·44 6·25 1·24 12·04 1·15 1·65 | 58'76 53'08 78'27 75'85 50'25 75'85 50'30 32'74 | 55'40 47'66 62'05 57'18 52'58 51'26 P | Rajmehal Godda. Pakour, Nya Doomka. Deoghur. Jamtara. Mohagama. Nanihal. | Sonthal Pergunnahs. | |
| | | | | | | - | | | | 8 | 5.7 | 3.08 | 8.21 | 1.71 | 55*84 50*56 | 50°56 49°25 | Pachamba (Giridi). Hazaribagh. | Hazaribagh | CHUTIA NAGPIR. |
| | 111111 | 1611141 | | | 1111111 | HHHH | HHH | 11111111 | | 4 3 6 5 7 3 | 5.3 4.1 4.7 9 | 0.70 1.90 3.00 2.05 5.89 2.53 | 2.81 2.83 P | 0°30 1°10 2°03 1°10 2°59 1°80 | 40°24 57'60 51'14 49'03 58'04 51'49 | 48'61 61'31 P P P | Semtagurah. Mahudi Hills. Jhoomrah Hills Barhi. Chatra. Karapdeha. Ramghar. | | |
| | | 11:::1 | | | | | | | | 3 6 3 6 4 NII | 6.8 2.0 4.1 5.0 | 1.78 2.54 0.59 5.40 1.29 | 2°28 3°05 2°66 9 | 0°70 0°84 0°43 1°10 0°60 Nil | 55°23 47°09 45°32 43°90 9 | 51:69 49:66 45:02 P | Lohardugga Ranchi. Palamow. Silli. Balumat. Hoseinabad. | Lohardugga. | |
| ***** | | | 11 | | | | | | * | Nil 5 | 6.6 8 | Nil 1.73 1.70 | 2.04 | Nil 0.56 1.30 | 38°96 36°22 | P 54:39 | Garwah. Chyebassa Chakradhar. | Singbhoom. | |
| = | = | -1 | | | | | | | | 5 3 | ļ | 5°25 1'43 | 9 | 1.85 | 56:50 55:99 | P P | pore. Ghatsila. Baharagura. | | |
| ***** | ======================================= | 1 | | | | | | = | = | 7 6 2 | 6'4 5'5 P | 3°03 3°57 3°34 | 3.60 4.00 5 | 1.20 2.67 2.72 | 46°67 39°67 62°52 | 50°39 47°04 P | Purulia Gobindpore. Raghunath- | Manbhoom. | |
| 27 *** 27 *** ****** | = | | = | = | | - | - | | | 5 6 | 1 9 9 | 1'90 8'51 5'32 | 9 9 | 0.80 2.83 3.90 | 45.65 65.79 51.93 | 9 9 | pore. Barrabhoom. Jhalda. Chas. | | |

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF OCTOBER 1890.

Meteorology of the month.-Up to the end of September weather conditions were still being controlled by the depression which had formed in the Bay off the Circars, and after moving into Central India had changed its direction and moved to the north-east over Bengal. The general rainfall practically ceased at the end of that month, and as the pressure distribution had became very uniform and tended to become relatively high at Bengal stations as compared with that at those on the coast, the monsoon current became very weak, and rainfall was almost entirely absent during the first ten days of October. After the sky cleared temperature increased rapidly, and dry westerly winds blew over the whole province as far as the borders of Assam on the 1st and 2nd. As easterly winds continued down the Assam valley the interaction seems to have been the cause of unsettled conditions, which first became apparent on the 3rd in the east of North Bengal and on the following day spread over almost the whole of Bengal. Thunderstorms with local falls of rain and a general fall of temperature occurred in North Bengal on the 2nd and 3rd, and in all districts except Chutia Nagpur and Behar on the 4th, while with the advance of the unsettled conditions winds changed from westerly to south-east and temperature underwent considerable variations. On the 5th the difference of pressure in the northern districts of Bengal from that in the south of the Bay was only a tenth of an inch, and as it began to increase in the east of Assam, the rise gradually extending in a south-westerly direction, the distribution underwent a change which by the 8th gave highest pressure in Bengal and lowest in the south of the Bay. These altered conditions were accompanied by fine weather with falling temperature and light northerly winds, but for a few days only, as a low-pressure area formed in the south of the Bay and advanced in a northerly direction so as to pass

over the western districts of Bengal.

Cyclonic storm from the 8th to the 16th.—The low-pressure area was faintly noticeable on the 8th, in the relatively low pressure at Madras and Nellore and the indraught across the coast at the southern stations. The depression probably covered the greater part of the southern half of the Bay as the wind velocity at Diamond Island had increased from 4 to 12 miles an hour, and the direction being south-easterly, evidently belonged to a cyclonic circulation. There was very little change till the 11th, the depression deepening slowly, but apparently remaining diffused, while rainfall was very light along the west coast. On the 11th moderately heavy rain fell at all stations in the Circars and Orissa, pressure changed much more rapidly, specially at Coconada and Vizagapatam, and squally weather became general along the west coast. The centre of the depression was to the east of Coconada, moving in a north or north-westerly direction. On the 12th rainfall had increased varying from 2 to 4 inches in the Circars and Orissa, and it had extended to som of the inland stations of Western Bengal. The centre was then close to the coast between Vizagapatam and Gopalpur, but as it was moving almost due north, it did not cross the coast till the following morning. Gopalpur alone reported lower pressure (by '037 inch), and as changes were elsewhere small, there was every appearance of the depression beginning to fill up. Wind velocity also favoured this conclusion, as the highest recorded during the storm was 31 miles an hour at Pooree on the 11th. It fell to 23 on the 12th and 14 on the 13th, after which there was a slight increase. The area of heavy rainfall kept steadily ahead of the centre of the disturbance, and on the 13th when it was near Gopalpur the heaviest fall in the Circars was .85 inch, but in Orissa, False Point, and Pooree received between 4 and 5 inches, and moderate amounts were falling in South-West and East Bengal. On the 14th the area of lowest pressure covered the northern half of Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur, the lowest reading being 29 657 inches at Burdwan. Squally weather with very heavy rain prevailed in Lower Bengal, and also on the following day, though the depression was filling up As the centre moved northwards, pressure continued rising with great rapidity, and unusually heavy rain fell in North Bengal on the 15th and 16th. After this pressure was above 30 inches except in Lower Bengal, and readings about a twentieth of an inch above the normal. Showers continued to fall, but weather was rapidly clearing:

It may be noted that the rainfall accompanying this storm, especially during the earlier

part of its existence, was almost entirely in front of the area of lowest pressure.

Fine weather prevailed till the 20th, when the second depression of the month began to appear to the east of the centre of the Bay. A south-easterly wind was blowing at Diamond Island, and velocity for the previous day was 14 miles an hour, while at 8 a.m. it was 24 miles. These strong winds continued on the 21st, when the depression had moved to the north and was covering the northern half of the Bay. Meanwhile fine clear weather with a few local showers was general in Bengal, and northerly winds were blowing in Arakan, Bengal, and Orissa

The storm proved to be of very local influence, and as it moved over the Sunderbuns and East Bengal, gave squally weather and moderate rain only in the near neighbourhood of its centre. On the 23rd the centre was near Furreedpore which received three inches, while the falls at Jessore and Dacca were about 2 inches. On the 24th it was diffused and shallow, but the wind circulation was cyclonic round a centre between Dacca and Serajgunge. On the 25th normal weather prevailed with northerly or north-westerly winds

at all stations, and rapidly falling temperature. Till the end of the month similar weather continued with high pressure in the north and lowest in the extreme south of the Bay where conditions were unsettled.

Pressure.—At the beginning of the month the distribution was very uniform and above the normal by amounts varying from '08 inch in the west of the province to rather less than '05 inch at eastern stations. Up till the 5th there was a steady fall, then a moderate rise for two days, after which readings were very nearly normal. Considerable changes occurred during the existence of the storm, that is, from the 10th to the 16th; the rise being very rapid on the 15th and 16th, more especially in the western half of the province. On the 16th readings were over 30 inches at Sibsagar and Motihary, and on the 17th over almost the whole province, the exceptions being in South-West and East Bengal. During the latter half of the month changes were generally small. While the small depression was moving over East Bengal, the largest fall was about a tenth of an inch, and this was followed by a brisk rise. The means for the month rarely differ from the normal by more than a few thousandths of an inch.

Temperature – Has frequently been below the normal, and means are largely in defect—for Chutia Nagpur by 1.6°, North Bengal 1.4°, South-West Bengal and South Behar 1°, Assam 9°, Orissa and East Bengal 5°, and North Behar 3°. There was excess of between 1° and 3° at the beginning of the month, and the general tendency up to the 10th was to keep slightly above the normal. While the heavy rain was falling, day temperatures were very low, and means for the period between the 10th and 17th were below the normal by amounts ranging up to 3.8° in North Bengal. From the 17th till the end of the month comparatively cool weather prevailed, defect averaging more than 1° in all districts except Orissa, where there was excess of about 1° during the last few days.

Rainfall—Showers fell on the 4th and 5th, and again on the 23rd and 24th, but almost

Rainfall.—Showers fell on the 4th and 5th, and again on the 23rd and 24th, but almost the whole rainfall of the month was received between the 9th and 17th. During these days, however, the falls were unusually heavy, first in Orissa and afterwards in South-West, East and North Bengal, so that the mean falls for the large divisions are all above the normal except that for Chutia Nagpur, which is deficient by nearly one inch. The mean fall for North Bengal is 12·3 inches, or 8 inches in excess; for Orissa 9 inches, or 2·84 inches in excess; and for South-West Bengal 8·07 inches, or 3·74 inches in excess. The falls for the other divisions are East Bengal 6·92, South Behar 3·78, North Behar 3·59, and Chutia Nagpur

2.07 inches.

The following table gives a comparison between the actual monthly and total rainfall and the normal rainfall of the province up to the end of October in the same form as has been employed in the previous monthly abstracts of the present year. The figures represent the ratio of the rainfall of each month of the present year to the normal rainfall expressed as a percentage. The table thus gives a condensed summary of the rainfall data of the year for each meteorological division. The first ten columns give the percentage amount of rainfall received in each month, and the last column the percentage rainfall of the whole period from the 1st of January to the end of October. It will be seen that there is excess of 34 per cent. in North Bengal, 28 in North Behar, and 22 in South Behar, while Chutia Nagpur and East Bengal have received less than the normal:—

| MRTEOROLOGICAL DIVISIONS. | January. | February. | March. | April. | Мау. | June. | July. | August. | September. | Oetober. | Actual rainfall of first ten months of 1890 expressed as a percentage of the normal fall for the period. |
|---------------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|---|
| Orissa | 24 | 5 | 216 | 20 | 99 | 124 | 97 | 80 | 168 | 146 | 115 |
| South-West Bengal | 98 | Nil | 39 | 75 | 87 | 141 | 102 | 69 | 104 | 186 | 102 |
| East Bengal | 181 | 4 | 70 | 122 | 102 | 89 | 120 | 88 | 60 | 128 | 95 |
| North Bengal | 98 | Nil | 26 | 155 | 81 | 132 | 129 | 132 | 143 | 281 | 134 |
| North Behar | 38 | 2 | 25 | 40 | 95 | 140 | 174 | 134 | 97 | 101 | 128 |
| South Behar | Nil | 5 | 63 | 80 | 95 | 183 | 136 | 125 | 82 | 115 | 123 |
| Chutia Nagpur | Nil | Nil | 120 | 1 | 65 | 132 | 116 | 75 | 81 | 70 | 92 |

The area of deficient rainfall lies almost entirely in the west of the province, including the whole of Chutia Nagpur and of Behar with the exception of Purneah and the Sonthal Pergunnahs. The difference from the normal in the former is about half an inch in all districts except Hazaribagh and Lohardugga, where, as in Behar, defect amounts are generally over 2 inches. The largest defect is in Chittagong, being 4.5 at Cox's Bazar, 3.25 at Rangamati, and 2.4 inches at Ruma. Parts of Burdwan, Hooghly, and Dacca received deficient rainfall by about 1 inch. Very heavy falls were registered in the south of the Sonthal Pergunnahs, excess at Jamtara being 15.22, at Nya Doomka 8.47, and at Pakour 7.74 inches; but in Purneah and Chumparun excess was only 2 or 3 inches except at Kissengunge, where it was over 10 inches. In South-West and East Bengal excess was very irregular and ranged up to 12.7 inches at Saugor Island, but as a rule it was between 2 and 3 inches. In the north of East Bengal and in North Bengal it ranged from 5 to 15 inches, and in the latter was at many places between 8 and 10 inches. Actual falls were

under 2 inches in Chutia Nagpur except Manbhoom, and in the western half of South Behar: between 2 and 5 inches in the western half of the province except Orissa and parts of South-West Bengal: and between 5 and 10 inches in Orissa, the greater part of South-West Bengal and East Bengal, except the Sunderbuns and a narrow strip along the Bengal and Orissa coasts, where they were over 10 inches, and at Contai and Saugor Island over 20 inches. At many stations in the Sonthal Pergunnahs falls were over 10 inches, and in North Bengal between 10 and 20 inches.

The following table gives full data for the comparison of the actual and normal rainfall of the month of October in all districts of the province. The figures are obtained in the manner explained in previous monthly summaries. The first column gives the average district rainfall as determined from the rainfall observations of the past 15 years. The second column gives the actual district rainfall as determined from the actual weighted rainfall of the month at the reporting stations in the district. The third column expresses the ratio of the actual district rainfall to the normal as a percentage, and the fourth the same information in a slightly different form:—

Percentage Table for October 1890.

| Division. | District | | a turis Turis | Normal district rainfall for October, | Actual district' rainfall for October 1890. | Percentage of actual to normal rainfall. | Percenture ex- cess (+), defect (-). |
|---------------------------------|-----------------------------------|----------|------------------|---|---|--|--|
| THE WHILE SHOULD | (Pooree | ing it | Stief | 7.42 | 10:84 | 146 | + 46 |
| | Cuttack | | A POLICE | 5.69 | 7.45 | 131 | + 31 |
| Orissa | Balasore | *** | *** | 5:36 | 9.54 | 176 | + 71 |
| | Midnapore | | 1 | 5.26 | 7.85 | 149 | + 45 |
| | 24-Pergunnahs | *** | 0.61 | 4.46 | 10.83 | 243 | +14 |
| | Howrah | | | 3.65 | 5.99 | 164 | + 64 |
| 12 - 42 1904 24 | Hooghly | | CHAPAG | 4.07 | 5.70 | 140 | + 40 |
| | Burdwan | | | 4:16 | 4.27 | 103 | + 3 |
| | Bankoora | | | 3 77 | 5.04 | 134 | + 3 |
| South-West Bengal | Beerbhoom | | 200 | 3:41 | 8.37 | 245 | +14 |
| | Nuddea | *** | 10 | 4.17 | 8.87 | 213 | +113 |
| | Khoolna | 100 | 100 | 4.52 | 7 18 | 168 | + 51 |
| | Jessore | Mar. | 40.0 | 4.45 | 8.61 | 193 | + 9 |
| | Moorshedabad | March II | 170. 180.039 | 4.87 | 7:18 | 164 | + 6 |
| | Chittagong | *1* | - | 6.60 | 4:05 | 61 | - 39 |
| | Backergunge | *** | | 5.62 | 7.46 | 133 | + 33 |
| | Noakholly | *** | 100 | 7.37 | 9.57 | 130 | + 3 |
| East Bengal | Furreedpore | | | 4.24 | 7.78 | 183 | + 8 |
| East Bengal | Dacca | *** | | 4.61 | 5:35 | 116 | + 1 |
| | Tipperah | | 4 | 5:26 | 6.62 | 126 | + 20 |
| | Mymensingh | *** | | 5.32 | 9:35 | 176 | + 7 |
| | Pubna | *** | 10000 | 4.43 | 5.63 | 127 | + 2 |
| | Bogra | *** | | 4.34 | 11.60 | 267 | +16 |
| | Rajshahye | *** | CATALOG TO SERVE | 4.53 | 10.23 | 226 | +12 |
| | Maldah | *** | *** | 3.62 | 7.60 | 210 | +110 |
| North Bengal | Dinagepore | | *** | 3.44 | 11'45 | 333 | +23 |
| North Bengal | Rungpore | *** | | 4.46 | 14.66 | 329 | +22 |
| AND THE PROPERTY | Rungpore Cooch Behar | 1. 1 | | 4.99 | 14.37 | 288 | +18 |
| Sand Charles and Sand Sand Sand | Julpigoree | *** | *** | 5.25 | 18.29 | 348 | +24 |
| | Darjeeling | | | 6.10 | 10.62 | 174 | + 7 |
| | Purneah | | *** | 3.43 | 8.94 | 261 | +16 |
| | North Bhagulpore | *** | *** | 3.36 | 2.19 | 65 | _ 8 |
| | Durbhunga | *** | "" | 2.72 | 1.87 | 69 | - 3 |
| North Behar | Mozufferpore | *** | | 3.03 | 1.81 | 60 | _ 4 |
| North Benar | Chumparun | ••• | *** | 3.46 | 5.56 | 161 | + 6 |
| | Sarun | | *** | 3.74 | 1.50 | 40 | - 60 |
| | Shahabad | *** | | 3.19 | 1.39 | 44 | 5 |
| | Gya | | 1 | 2.58 | 0.42 | 16 | _ 8 |
| | Patna | | *** | 2.97 | 1.18 | 40 | 60 |
| South Behar | Monghyr | *** | | 3.13 | 2.25 | 72 | - 28 |
| South Denar | South Bhagulpore | *** | | 3:64 | 4.39 | 121 | + 2 |
| | South Bhaguipore South Bhaguipore | *** | *** | 3.62 | 10.03 | 277 | +177 |
| the second second | Hazaribagh | | *** | 3.26 | 1.61 | 49 | - 5 |
| | Lohardugga | *** | 班達 # | 2.47 | 1.35 | 55 | - 4 |
| Chutia Nagpur | Singbhoom | | 110 | 2.94 | 1.73 | 59 | |
| | Manbhoom | | Acres 255 | 3.68 | 3:14 | 85 | - 1 |

SUPPLEMENT TO THE CALCUTTA GAZETTE, NOVEMBER 12, 1890. 2295

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of October 1890:—

| | | 1 | EMPE | RATUE | В, | | | | R | LAINPA | LL. | | | |
|---------------------------|--------------------------------|------------------------|----------------|------------------------|-----------------------|--|----------|-----------------|------------|--------------------------|--------------------------------------|------------|--------------|-----------------|
| | g month. | month. | | rages nonth | | of month above | (| of mon | th. | Raiz | y day | | Since May | 15th 1890. |
| Maynorological Divisions, | Highest observed during month. | Lowest observed during | highest of ay. | Of lowest of each day. | Of mean for each day. | Average mean of month or below normal mean of n | Average. | Normal average. | Variation. | Average number in month, | Normal average num- ber in month. | Variation. | Average. | Normal sversge. |
| Oriesa | 93.9 | 68.9 | 87.2 | 75'1 | 81.2 | -0.2 | 9.00 | 6.16 | +2.84 | 8.2 | 8.1 | +0.4 | 61.77 | 51'24 |
| South-West Bengal | 93.3 | 62.1 | 86'4 | 73.7 | 80°1 | -1.0 | 8.07 | 4.33 | +3.74 | 8'4 | 6.6 | +1.8 | 56.66 | 51.00 |
| East Bengal | 92-1 | 65'8 | 85.9 | 741 | 80.0 | -0.2 | 6.92 | 5'43 | +1'49 | 9.7 | 7.7 | +2.0 | 71.25 | 72'59 |
| North Bengal | 90-9 | 62.1 | 84'9 | 71'8 | 78.4 | -1'4 | 12.30 | 4'38 | +7*92 | 7'4 | 5.6 | +1'8 | 94-87 | 68167 |
| North Behar | 92.8 | 58'9 | 83.6 | 71'4 | 78'5 | -0.3 | 3.20 | 3.24 | +0.02 | 41 | 3.7 | +0.4 | 64'38 | 47.90 |
| South Begar | 91.9 | 57 8 | 85'9 | 70.6 | 78'3 | -1.0 | 3.78 | 3.30 | +0'48 | 4'8 | 4'3 | +0.2 | 54'57 | 42.97 |
| Chatia Nagpur | 86.2* | 55.9* | 81.4. | 64.8* | 73.1. | -1.6* | 2.07 | 2.97 | -0.80 | 5.0 | 5'6 | -0.6 | 45'98 | 47:94 |
| Asiam | 94'5 | 61.0 | 85.1 | 71.7 | 78'4 | -0.9 | | 1 | 300 | Sarry | * | | 1.75 | |

^{*} Chyebassa not included.

METBOROLOGICAL OFFICE, BRNGAL;

The 11th November 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Beng

| L | District. | | | | | | 10-11 | | STATI | ON OB | SERVATIO | NS. | | | | |
|------|--------------------------|----------|----------------------------|-----------------------------------|-------------------------------|-----------------------|-----------------------|---------------|----------------------|---------------|------------------------|----------------------|------------------------------|---|---|-------------------------------|
| 160 | | | | ATR | PRESSU | RR. | WIN | m. | | | | TEMPER | ATURE. | | | |
| | Distrio | | Representative station. | Mean barometric height, 8 A.M. | Mean reduced to sea-level. | Variation from niean. | "revalling direction. | Mean wind ve- | Highest during week. | Date. | Lowest during week. | nate. | Mean maximum temperature. | Mean minimum temperature of week. | Mean daily tem- perature of weak. | Variation from normal mean |
| | | | Pooree | 29-965 | 29*977 | - | NE | 178 | 83.7 | 5th Nov. | 73'1 | 3.5 & 6 Nov 2 & 5 | 81·3 81·5 | 73·7 72·3 | 77'5 76'9 | |
| I | Pooree | } | Gopalpore | 29,963 | 29.085 | +'034 | N | 254 | 86'2 | 2nd " | 71'8 | art. | 81'8 | 72.2 | V1531 | |
| | | (| False Point | 29.959 | 29.981 | +'012 | North- Easterly | 158 | 83.9 | 4th ,, | 70.1 | 6th ., | 81.6 | 72.5 | 77:0 | -0 |
| C | Juttack | 115 27 | Cuttack | 29'917 | 30.000 | + '032 | NE | 57 | 85 3 | 5 to 7 " | 69.8 | 6th ,, | 81.8 | 69.1 | 78.6 | +0 |
| 1.5 | Balasore | *** *** | Balasore | 29.950 | 30 011 | + 033 | NNW & | 67 | 81'4 | 6th " | | 5 to 7 ,. | Tree ! | 1 | ONE | -0. |
| 88 | outh-West Mid | napore } | Saugor Island | 29.977 | 80 004 | +'031 | North- East-riy | 192 | 84'7 | 6th ,, | 68.4 | 5th | 82.8 | 70 4 | 76.6 | +0 |
| 163 | lidnapore | | Midnapore | 29.856 | 30.015 | + '027 | NE | 153 | 86.3 | 5 & 6 | 66.2 | 5th ", | 851 | 68 9 | 77.1 | +1 |
| an. | 4-Pergunnaha | 100 | | 80:001 | 90.017 | 1.1097 | | *** | 0911 | 144 | 65'8 | 5th . | 82.4 | 68.1 | 75'3 | |
| F | lowrah looghly | } | Calcutta | 29.991 | 30 013 | + '087 | North- Easterly | 38 | 83.4 | 1st ,, | 00.0 | oen , | | | | -1' |
| 18 | Burdwan | | Burdwan | 29:932 | 30.632 | +*047 | Calm | 33 | 85 3 | lst | 67'4 | 6th " | 84'2 | 69 1 | 76 6 | -0 |
| 158 | Bankoora | | Bankoora | 44.683 | 80.002 | + 031 | Calm | 32 | 86.5 | 6th ,, | 66.7 | 5th " | 84'2 | 68.7 | 76'5 | +0 |
| 15 | Beerbhoom | } | Raneegunge | 29'6849 | 30:028? | + '0429 | NE. | 31 | 83.1 | 5th " | 67'4 | 7th ,. | 82'8 | 63'8 | 75.8 | +0 |
| N | West Burdwan |) | Lister Control Manager | 29-950 | 30 019 | + 031 | AND THE RESERVE | 40 | 83"1 | 041 | 62-7 | 6th ,. | 82.0 | 65 9 | 74'0 | -2 |
| 3 | loorshedabad | *** | Berhampore | 29/949 | 80/019 | + '048 | NE | 68 | 85.6 | 1et | 63.6 | 76h | 84'5 | 66:2 | 75'4 | -0. |
| 1 | Yuddes | *** | Krishnaghur | | 20202 | | ENE | 00 | 000 | 186 0 | | | 131-31 | 70:0 | | |
| | essore Choolns | } | Jessore | 291981 | 30.016. | + 041 | Calm | 34 | 84.7 | 1 & 6 | 68.5 | 5 & 7 | 84.0 | 70.0 | 77.0 | -1 |
| 15 | hittagong | | Chittagong | 29:9197 | 30.0115 | +*0469 | Variable | 29 | 86.8 | 3rd " | 66.8 | 7th ,, | 83.2 | 70.4 | 77:0 | -0. |
| 100 | hittagong Hill | Tracts | Demagiri . | 1 | | | 13 | * | observ | ations not re | occived. | | | 111 | 5.0 | |
| II. | Backergunge | | Barrisa) | 29.987 | 29.999 | + '052 | NE | .63 | 82.8 | 4 & 5 Nov. | 66.0 | 6th ., | 82.4 | 69.6 | 76.0 | -0. |
| 16 | Noakholly | | Noakholly | 20'964 | 30.009 | +'058 | NE | 77 | 83'5 | 4 & 5 ,, | 62'5 | 7th ,, | 83.0 | 67.0 | 75.0 | -1 |
| 10 | arroedpore | | Furreedpore | 29.991 | 30.033 | +1070 | NE & N | 45 | 83 0 | 1st | 65.0 | 7th ,, | 81.6 | 68-5 | 75 0 | -0, |
| 12 | neca | | Dacca | 29:979 | 30'002 | + '038 | North- | 89 | 851 | 1st | 63 8 | 7th | 83.7 | 66.9 | 75'3 | -2 |
| Kā | commillah | | Commillab | 29'975 | 30.015 | + '057 | Easterly N | 142 | 84'4 | 1st ,, | 61.9 | 6th ,. | 88'5 | 65.2 | 74'5 | -2 |
| M | lymensingh | | Mymensingh | 29'956 | 30.016 | + '054 | Northerly | 50 | 82.7 | 1st " | 61 5 | 7th ,, | 81'2 | 63.8 | 72 5 | -2 |
| B | logra | | Bugra | 29.942 | 30.002 | +.068 | NE | 87 | 83.3 | ist | 67:1 | 1st | 81.3 | 64*7 | 73.0 | -1 |
| P | nbna | | Serajgunge | 29*975 | 30.053 | + '049 | N | 25 | 84 0 | 1st ,, | 60.0 | 7th ,, | 81.2 | 64'6 | 73:1 | -1 |
| B | lajshahye | | Rampore Beau- | 29.942 | 30.014 | + '048 | NE | 28 | 82 6 | 6th ,, | 66.2 | 7th ,, | 81.6 | 68.9 | 75.1 | +2 |
| 3 | faldsh | *** | leah. Maldah | 29.946 | 30.030 | +109 | 8E | 61 | 83.7 | 1st ,, | 62.2 | 7th ,, | 82.7 | 66 8 | 74'8 | +1 |
| D | inagepore | | Dinagepore | 29 911 | 30.037 | +*042 | NW | 31 | 8516 | 2nd ,, | 59'7 | 7th | 83 1 | 64 0 | 73'6 | +0. |
| B | lungpore | | Rungpore | 19.503 | 30.032 | +.037 | ENE | 80 | 84 2 | 1st | 59'7 | 6 & 7 | 82.3 | 62 4 | 72'4 | -0. |
| J | ulpigoree | } | Julpigoree | 29*737 | 30'037 | + 040 | | 138 | 84'3 | 1st " | 57 3 | 6th ,, | 81.6 | 59.1 | 70'4 | -3 |
| 105 | looch Behar | Treate | Darjeeling | 23.024 | - | -'033 | Variable | 84 | 55'3 | 7th | 39.3 | 3rd " | 53.6 | 40.9 | 47:2 | -2 |
| 133 | arjeeling Hill | | | 29.900 | 30.031 | + '036 | | | 83.2 | | 59'5 | | 81.4 | | 7 700 | STEEL ST |
| N | urneah forth Bhagulpo | re} | Purneah | 29 900 | 20 001 | 4 000 | Calm | 34 | 00 2 | 186 " | | 6th " | 01 | 62.7 | 72'1 | -1 |
| N | lozufferpore | | Mozufferpore | 29'844 | 30.032 | - | Calm | 34 | 81.9 | 1st " | 65.5 | ist | 80.2 | 65.7* | 73.2* | 100 |
| D | ourbhunga | | Durbbungs . | 29.868 | 80'042 | +.638 | WNW | 37 | 82.9 | 2nd ,, | 60.9 | 6th | 81.2 | 61'9 | 71:7 | -3 |
| C | humparun | | Motihari | 29.819 | 30.026 | + 074 | Variable | 61 | 81.2 | 1,3 & 5 ., | 55'9 | 5th " | 80.6 | 67.9 | 69.3 | -1 |
| 8 | arun | | Chupra | 29.839 | 30.040 | +*061 | Calm | 14 | 82'8 | 5th ., | 63:4 | 1st ,, | 81.6 | 65.0 | 73.3 | -0 |
| | | (| Dehree | 29.676 | 30.043 | +*041 | Calm | 23 | 84.3 | 1st " | 58.0 | 1st ,, | 83.1 | 60.3 | 71.7 | -1 |
| 8 | hababad | { | Buxsr | 29°793 29°837 | 30°045 30°037 | +'054 | WSW Variable | 43 | 83.4 83.6 | 2nd | 9.69 | 3rd " | 82.8 85.8 | 62.7 | 72'7 | -1 -0 |
| 10 | iya | | Gya | 29.663 | 301056 | +'051 | B | 105 | 84'4 | 1&2 ,, | 62.1 | 2nd ., | 83'6 | 65'8 | 74.5 | -0 |
| 193 | atna | | Bankipore | 29.854 | 30'045 | + '035 | Calm | 28 | 83.3 | 1st ., | 62'7 | 2nd " | 81'6 | 64.7 | 73:2 | -1 |
| ш | outh Bhagulpe | | | 29.852 | 30.010 | +*030 | Calm | 3 | 82'3 | 1 to 3 ,, | 63.0 | 0.67 | 81.8 | 66.5 | 741 | +1 |
| N | longhyr | 5 | Bhagulpore | | | | Office of | | | reb | | | | | 1 | 3 45 10 |
| 10. | ontha! Pergun | nah | Doomka | 29.211 | 80.026 | +'041 | E Versieble | 46 | 82.6 | 5th | 63'8 | 7th | 81.9 | 66 7 | 74'8 | +0 |
| 13 | lazaribagh | | Hazaribagh . | 27.973 | 30 040 | +'016 | Variable | 94 | 79.2 | 1st | 60.2 | 7th | 77.7 | 62.1 | 69.9 | -0 |
| | ohardugga danbhoom | = =) | Ranchee | 27.852 | 30'635 | + '026 | Calm | 72 | 80.3 | 6th S | 59.6 | 1st " | 77.9 | 61.2 | 69.6 | +0 |
| Bill | | | Chyebassa | 29'242 | 30.028 | +'043 | ENE | 28 | 86.0 | 1st ., | 62.0 | 5th | 841 | 65'7 | 7514 | +0 |

* Means of five days.

Baplanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number of numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

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the week ending Friday, the 7ht of November 1890.

| | | | | | | | DIST | RICT O | BSERVATI | ONS. | | | | |
|-----------|--------------------------------|------------------|-----------------------|--|--------------------|-----------------|--------------|-----------------------|-----------------|------------|-------------------------|-------------------------|----------------------------|---------------------------|
| | f. dunt | # | | | Control of | | | RA | INPALL. | | | | | |
| | d amount r week. | week | OP | WHEK. | Sinc | e 1st of mo | onth. | Si | ace 15th Way | 1890. | number runys. | number days. | Representative station. | District. |
| 85 6 A.M. | Average cloud at 8 A.M. for | Rainfall of week | Mean for district. | Normal mean. | Mean for district. | formal mean. | · sristion. | Wean for district, | Normal mesm. | Variation. | Werage nu of rainy u | vorms! ni of rainy d | | |
| 11 | 8'4 6'1 | 1'81 3'33 | | 1.34 | | 1.31 | | | 53.67 | | | 1'0 | Pooree Gopalpore} | Poores |
| 6 | 6'4 | 3 69 | | | | | +1-35 | 63.23 | 50.31 | +13'22 | 1.6 | 0.2 | False Point) | Outtack |
| 7 | 5.6 | 1:47 | 0 73 | 0.21 | 0.73 | 0.21 | +0.10 | 61.15 | 52.28 | +8'81 | 1'3 | 0.2 | Balasore | Ralasona |
| 0 | 2.6 | 3.18 | | A STATE OF THE STA | | 0:49 | +0.12 | 66*29 | 61:49 | +4'80 | 2.0 | 0.2 | Saugor Island | South West Widneson |
| 0 | 77 | 1:44 | 0.64 | 0.49 | 0.61 | | Street | | 50:77 | | 0.0 | 0.4 | | Mides - Pergunnahs |
| 2 | 3'4 | Nil | Nil | 0.16 | Nil | 0.18 | -0*16 | 60-00 | | -0'77 | 00 | | Midnapore | Midnapore |
| 1 | 31 | 0.01 | 0.02 | 0.25 | 0107 | 0.25 | -0.18 | 55'16 | 50:81 | +4'35 | 0.3 | 0.4 | Calcutta { | Hooghly |
| | 67 | 0.28 | 0.52 | 0.59 | 0.52 | 0.53 | -0'04 | 61.41 | 46'11 | +15.30 | 0.7 | 0.4 | Burdwan | Burdwan |
| 81 | 6.8 | Nil | 0.01 | 0.53 | 0.01 | 0.53 | -0*22 | 52'02 | 51.70 | +0.31 | 0.5 | 0.3 | Bankoora | Bankoora |
| | 4.0 | 0.10 | 0.85 | 0.09 | 0.32 | 0.00 | +0'16 | 63'93 | 51.21 | +12.39 | 1'3 | 0.3 | Raneegunge (| Beerbhoom West Burdwan |
| | 24 | 0.02 | 0.33 | 0.14 | 0.33 | 0.14 | +0,10 | 69'55 | 49'80 | +10.75 | 0.7 | 0.3 | Berhampore | Moorshedabad |
| 83 | 44 | 0.10 | 0.01 | 0.26 | 0104 | 0.59 | -0.55 | 55:03 | 48'56 | +6'47 | 0.5 | 0.4 | Krishnaghue | Nuddea |
| 84 | 5% | Nil | 0. 6 | 0.27 | 0.00 | 0°27 | -0'21 | 53'51 | 52'49 | +1.04 | 0.1 | 0.4 | Jessore { | Jessore |
| SE . | | 1 | | 1.25 | | 1.25 | +0°12 | 119'01 | 111.65 | +7'41 | 3.0 | 0.8 | Ohittagong | Chittagons |
| 9 | 5.9 | 1.41 | 0.42 | 1.32 | 0.42 | 1'35 | -0.93 | 78'32 | 79:12 | -5'80 | 1.0 | 1.5 | Demagiri | Chittagong Hill Tracts |
| | 4'8 | Nil | Nil | 1.05 | Nii | 1.02 | -1'05 | 68'16 | 75'40 | -7'24 | 0.0 | 0.8 | Barrisal | Backergunge |
| | 0.3 | Nil | NII | 1.23 | Nil | 1:53 | -1:53 | 97'88 | 104 69 | -6.81 | 0.0 | 1.0 | Noakholly | Noakholly |
| 6 | 29 | Nil | NII | 0.37 | Nil | 0.37 | -0'87 | 45'42 | 54.71 | 9-9-29 | 0.0 | 0.2 | Furreedpace | Furreedpore |
| 9 | 2.9 | Nil | Nil | 6'41 | Nil | 0.41 | -0.41 | 58'19 | 59'48 | -1.53 | 0.0 | 0.6 | Dacca | Dacca |
| Ú | 2.7 | Nil | Nii | 0.20 | Nil | 0.20 | -0,20 | 60'11 | 67'45 | -7:81 | 0.0 | 0.6 | Commillah | Tipperah |
| | 3.6 | 0.02 | 0.17 | 0.18 | 0:17 | 0.18 | -0,01 | 75'85 | 68'28 | +7'57 | 0-4 | 0.3 | Mymensingh | Mymensingh |
| ì | 1'4 | 0.62 | 0.41 | 0.12 | 0'41 | 0.12 | +0.26 | 78199 | 56.71 | +22.28 | 1.0 | 0.3 | Bogra | Bogra |
| 9 | 2.4 | 1.14 | 0.21 | 0 22 | 0:57 | 0.08 | +0.85 | 75-86 | 52'70 | +15.19 | 1.0 | 0.4 | Serajgunge | Rajahahua |
| 8 | 0.0 | 1.10 | 0.03 | 0.08 | 0.03 | 0.11 | -0,09 | 62'14 | 53.21 | +8.63 | 0'5 | 0.3 | Rampore Beauleah Maldah | Maldah |
| 3 | 13 | 0.03 | Nil | 0 03 | Nil | 0.03 | -0,03 | 81'74 | 56'18 | +25.26 | 0.0 | 0.1 | Dinamena | Dinagepore |
| 6 | 00 | Nil | Nil | Nil | Nil | Nil | Nil | 106'61 | 73.09 | +33.22 | 0.0 | 0.0 | Rungpore | Rungpore |
| 4 | oro | Nil | Nil | Nil | Nil | Nil | Nil | 154'51 | 109.53 | +44.08 | 0.0 | 0.0 | Julpigoree { | Julpigoree |
| | 24 | | Nit | 0.04 | Nil | 0.01 | -0'04 | 165 58 | 119.61 | +45'97 | 0.0 | 0.1 | Photostic | Darjeeling Hill Tracts |
| 2 | | Nil | 1300 | | 31.56 | | -0'01 | 80'67 | 58.00 | | | | Darjeeling | Purneah |
| 4 | 1.6 | Nil | Nil | 0.01 | Nil | 0.01 | | 52157 | | +22:67 | 0.0 | 0.1 | Purneah { | Mored Bhaguipore |
| 14 | 077 | Nil | Nil | 0.03 | Nil | 0.03 | -0103 | SERVE | 42*70 | +9'87 | 0.0 | 0.1 | Mozufferpere | Mozuferpore |
| 78 80 | 019 | Nil | Nil | 0.01 Nil | Nil | 0.01 Ntl | -0/01 Nil | 57'63 68'47 | 45°91 45°89 | +13.72 | 0.0 | 0.0 | Durbhunga | Chumparun |
| 79 | 07 | Nii Nii | NII | 0.03 | NII | 0103 | -0:03 | 53'60 | 41'70 | +11.00 | 0.0 | 0.1 | Connes | Sarun |
| 33 | 319 | Nil | | | | | | | | | 15-16 | | Denree) | |
| 18 | 413 | Nil Nil | Nil | 0.09 | Nil | 0.00 | -0.00 | 49:59 | 39.15 | +10.44 | 010 | 0.3 | Buxar | Shahabad |
| Ø. | 311 411 | Col. LOL | NO | 0.14 | INit | 0.14 | -0-14 | 86 93 | 40.71 | +16-22 | 910 | 0.5 | Arrah) | Gya |
| 18 | 317 | Nil | NII. | 0.10 | Nil | 0.14 | -0.10 | 48°10 | 40'51 | +7.59 | 0.0 | 0.5 | Bankipore | Patna |
| | 410 | | | 0.03 | Nii | A description | | | 42.37 | | | 0.1 | 94 | South Shaguipore |
| 8 | | Nil | Sil | | | 0.03 | -0.03 | 52 25 | | +9.88 | 0.0 | | | doughyr |
| 7 | 810 | 0'11 | 0:88 | 0.02 | 0.01 | 0.12 | +0.33 | 63'65 | 50°15 48°97 | +13.20 | 013 | 0.3 | Hazaripagh | Southal Pargunaha |
| 81 | 019 | Nil Nil | Nil Nil | 0.19 | NII | 0 19 | -0.13 | 49'45 | 47:14 | +0.48 | 012 | 0'4 | | 2000 A-60 REQUESTED THE |
| | | MI | 0.10 | 0.08 | 0.10 | 0.08 | +0.03 | 41.23 | 46'19 | -4.20 | 015 | 0.3 | } Ranchi { | Lohardugga Manbhoom |
| 83 | 610 | Nil | NII | 0.10 | Nil | 0.13 | -0.19 | 33.91 | 50'43 | -16'49 | 010 | 0.2 | Cnyebassa | Singbhoom |

by years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Landing cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means the part of the district are the numerical average of the rainfall enture received in the district is.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of November 1890.

| | | | | | R | AINPALL | | | | To | TAL | | 1 | | |
|-----------------------------|----------------------------|---|--|------------------------------|--------------------------|---------------------------|-----------------------------|----------------------------|--------------------------|--|--|--|---|--|--|
| Meteorological division. | District. | Station. | Saturday, 1st November. | Sunday, 2nd November. | Monday, 3rd November. | Tuesday, 4th November. | Wednesday, 5th November. | Thursday, 6th November. | Friday, 7th November. | Number of rainy days. | Rainfall of week. | Total rainfall since 1st of month. | Average total rain- fall from 1st of month, | Total rain- fail since 16th May 1890. | Average rainfall from 15t May to date. |
| ORISOA | Pooree | Pooree Khurdah Banpur False Point Gor | 1°17 0 30 0°49 | 0°18 0°60 1 78 | 0.00 | 0.41 | 0:43 | 0.08 | | -6 | 2:28 | 2 28 3 69 | 1'40 0'99 1'39 1'56 | 69 ⁻ 97 | 49:30 56:49 47:35 62:55 |
| | 1. | Satpara Pipli | 0.18 | 0.40 | 0.11 | 0.47 | 2 | - 17 | Sale. | | | 1 | 1 | | 1 |
| | Outtack | Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala Salipore | 1°60 3°01 1°06 0°32 0°10 0°70 | 2.07 0.73 0.27 0.24 | | | | | | 1 2 2 2 2 1 1 1 | 1.60 5.08 1.79 0.59 0.24 0.10 0.70 | 1°80 5°08 1°79 0°59 0°24 0°10 0°70 | 0°53 0°46 0°68 0°57 0°33 | 63:67 65:92 81:09 53:15 52:94 53:18 52:15 | 45'66 46'34 50'23 51'97 51'76 |
| | Balasore | Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah | 0 03 0 10 2 05 1 21 | 0.10 0.98 | 0.03 | | | | | 3 1 1 2 1 | 0°16 0°68 0°10 2°25 1°21 | 0°16 0°68 0°10 2°25 1°21 | 0.92 0.56 0.51 0.69 0.25 0.34 | 51°81 57°85 60°84 68°13 65°83 | 51:81 50:56 50:44 56:83 50:92 52:79 |
| SOUTH-WEST BANGAL | Midnapore | Contai Sangor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta | 0.30 | 0.15 | 0.02 | | | | | 2 3 Nil Nil Nil Nil Nil | 0°45 1°44 Nil Nil Nil Nil Nil | 0°45 1°44 Nil Nil Nil Nil Nil | 0.55 0.70 0.28 0.20 0.06 | 67'78 69'05 57'90 47'47 44'61 50'29 46'28 | 60'45 66'33 50'39 47'92 53'62 |
| | 24-Pergumalis | Diamond Har- bour Canning Town Alipore Jail Barrackpore Dum-Dum Baraset | 0.04 | 0.05 | | | | | | Nil Nil Nil Nil | 0.04 Nil 0.05 Nil 0.59 Nil | 0°04 Nil 0°05 Nil 0°59 Nil | 0°23 1 0°27 0°40 0°17 0°24 | 62:13 66:69 61:96 50:91 56:34 54:84 | 57'37 ? 54'58 48'49 50'76 48'96 |
| | | Buseerhat | | | ***** | ****** | ••••• | ****** | ****** | Nii | Nil | Nil Nil | 0.54 | 58'67 | 50'05 |
| | Howrah | Mohesreka (Onloberian) Serminpore Hooghly Jehanabad | 0.03 | | | | | **** | | Nil Nil Nil | Nil 0.03 Nil Nil | Nil 0:03 Nil Nil | 0°25 0°32 0°16 0°19 0°21 | 59:57 54:30 52:05 51:57 | 51°03 49°37 47°36 54°42 |
| | Burdwan | Culna Eurdwan Cutwa Raneegunge | 0°20 0°56 0°10 0°41 | | | | | | | 1 Nil 1 | 0°20 0°56 Nil 0°10 0°41 | 0°20 0°56 Nil 0°10 0°41 | 0'34 0'27 0'25 0'10 | 54°31 65°53 64°36 60°54 48°21 | 43'00 47'45 47'16 48'57 |
| | Bankoore | Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Gangajalghati Nonanukhi | 0.02 | | | | | | | Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil | Nil 0°05 Nil Nil Nil Nil Nil Nil Nil Nil Nil | NII NII 0'05 NII NII NII NII NII NII | 0°14 0°03 0°29 0°46 9 9 | 57'76 50'95 59'28 40'06 59'97 66'94 55'11 63'75 53'29 52'74 | 50:84 51:36 48:04 65:91 |
| | Beerbhuoju | Bh. Soory Hetampore Rampore Hau Bolpore Murarai | 0.53 0.56 | 0°10 0°20 1°19 | | | | | | 2 1 1 1 Nil | 0°33 0°76 0°20 1°19 Nil | 0°83 0°76 0°20 1°19 Nil | 0.08 0.10 0.09 5 | 62°28 60°31 72°56 57°42 56°46 | 53°05 53°67 50°67 |
| | Nuddea ,, | Ranaghat Kishnaghur Chocadanga Meherpore Kooshtea | 0.20 | | | | | | | Nil 1 Nil Nil Nil | Nil 0'20 Nil Nil Nil | Nil 0'20 Nil Nil Nil | 0.34 0.31 0.38 0.09 0.17 | 55'46 61'68 47'08 58'86 52'09 | 46°27 45°32 50°47 46°98 53°78 |
| | Khoolna | Satkhira Bagirhat Khoelna Nakipur Rampal | 0.48 | 0.90 | | | | | | Nii Nii Nii Nii | 0'48 Nil Nil 0'99 Nil | 0'48 Nil Nil 0'99 Nil | 0°25 0°43 0°28 1 | 57'61 62'51 52'88 76'02 65'78 | 54'90 60'33 53'75 ? |
| | Јевноге | Narail Jessore Jhenidah Magoorah Bongong | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 0°36 0°24 0°21 0°16 0°26 | 51'45 59'49 54'16 43'44 46'66 | 45 18 53'42 59'71 48 53 50'87 |
| | Moorshedsbad | Kandi Berhampore Lalbagh Azimgunge Jungipore Lalgoia Jiagunge Akhrigung Patkabari | 0'80 0'05 0'50 | 0.65 | | | | | | 1 Nii Nii 1 1 Nii 1 | 0.80 0.05 Nil Nil 0.50 0.65 | 0.80 0.05 Nil Nil 0.50 0.65 | 0°11 6°21 0°25 0°13 0°04 0°10 ? | 64 80 69 27 63 67 58 27 51 83 65 35 61 90 8 | 49°21 50°56 49°39 50°42 48°45 50°56 |
| hart Bengal | Chittagong | Cox's Bazar Chittagong Kutubdia Satkanya | | 0.64 | 0°20 0°-2 1°20 | 0°53 1°30 0°15 | 0.02 | | = | 3 3 | 1:37 1:37 0:15 | 1.37 1.37 0.15 | 1.60 0.80 1.00 | 129°42 108°69 81°41 | 131.85 131.85 |
| | Ubittegong Hill Tracts. | Rumati Patuakhally Perozepore Burrisal Baola | 0.03 | 0.80 | | | | | | 1 1 Nii Nii Nii Nii | 0.03 0.80 Nil Nil Nil Nil | 0.03 0.80 Nii Nii Nii Nii | 1'39 1'30 1'33 0'97 0'91 1'00 | 68'92 77'71 79'01 62'91 65'73 64'99 | 81°94 76°2 88°85 66°31 80°46 |

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of November 1890 -could.

| | | | A THE | | R | AINPAL | L. | | | To | TAL | | | | Average |
|----------------------------|---------------------------|--|----------------------------|--------------------------|--------------------------|------------------------|-----------------------------|----------------------------|--------------------------|--------------------------|----------------------|---|---|--|--|
| ateorological Division. | District. | Station. | Sarurday, 1st November. | Sunday, 2nd November, | Monday, 3rd November, | Tnesday, 4th November, | Wednesday, 5th November. | Thursday, 6th November, | Priday, 7th November. | Number of rainy days. | Rainfall of week. | Total rain- fall since 1st of month, | Average total rain- fall from 1st of month. | Total rain- fall since 15th May 1890. | rainfal from 15t May to date. |
| LET BENGAL | | Gournaddi Bauphal | | | | | | | | Nil Nil | Nil Nil | Nil Nil | | 42°66 73°26 | |
| | Noakholly | Noakholly Fenny | | | | | ***** | | | Nil Nil | Nil Nil | Nil Nil | 1'49 1'36 | 92°84 • 103°40 168°61 | 106 : |
| | | Harishpore Ramganj | | | ***** | | ***** | | | Nil Nil | Nil ' | Nil | P | 65*28 | 841 |
| | Furreedpore | Madsripore Furreedpore Goalundo | == | | | | ***** | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0°27 0°26 0°28 | 41'91 49'45 44'90 | 57 1 62 3 |
| | Daces | Munshigunge Dacca | | | | | | | | Nil Nil | Nil Nil Nil | Nil Nil | 0°57 0°40 | 57.78 54.68 | 68 (57:8 |
| | 1 | Naraingunge Manickgunge Joydebpore | | | | | | | | Nil Nil Nil | Nil Nil Nil | . il Nil Nil | 0.32 0.37 | 60°71 59°71 60°26 | 49 |
| | Hill Tipperal Tipperah | Agartola Comilla | | | | 6 | | | | Nil | Nil | Nil | 0°56 0°59 | 67:24 | 60: |
| | ripperan | Chandpore Brahmunberia Ramchandra | | | | | | | | Nil Nil | Nil Nil | Nil Nil | 0.40 | 56.78 54.64 | 60" |
| | | pore Nasirnagar Daudkandi | | | ****** | | | | | Nii Nii Nii | Nil Nil Nil | Nil Nil Nil | 9 9 | 76.11 34.81 30.44 | ; |
| | | Kasba Laksham | | | | | | | | Nil Nil | Nil Nil | Nil Nil | P | 68'55 | ; |
| | Mymensingh | Kishoregunge Atia (Tangail) | 0.81 | | | ****** | 33.2 | | | Nil 1 | Nil 0'81 | Nil 0'81 0'05 | 0°38 0°18 0°23 | 68.87 56.62 78.05 | 69°0 56 6 78°3 |
| | | lamslpore Netrokons | 0.02 | 1111 | - | | 200 | ****** | | Nil Nil | Nil Nil Nil | Nil Nil 0'42 | 0°17 0°01 | 79°16 96°54 58°25 | 64 4 80 (|
| | | Subornakhalli Durgapore Sherepore Town | ****** | | | ****** | | | | Nil Nil | Nii Nii | Nil Nil | 9 | 118'07 67'41 72'90 | |
| | Pubns | Dewangan;' Pubna | | | ***** | | | ***** | | Nil Nil | Nil | Nil Nil | 0.11 | 46'08 | 53.5 |
| NORTH BRNGAL. | | Sherepore | 0.22 | 0.37 | | | | | | 1 | 0.20 | 0'59 | 0.33 | 63°81 | 57.5 |
| | Bogrs | Nowknilla Bogra Panenbibi | 0.60 | 0.08 | | | | | | 1 2 Nil | 0.37 0.68 Nil | 0°37 0°68 Nii | 0.10 0.10 Nil | 66 79 79 92 91 46 | 5514 60°2 56°2 |
| | Rajshahye | Beaulesh | 0.95 1.55 | | | | | | | 1 1 | 0°95 1°55 | 0.95 | 0°05 0°18 | 72-29 88-84 | 52'8 51'1 |
| | | Naogaon Laipore Manda | 0.30 | | ***** | | | | | Nii Nii | Nii Nii | Nil Nil Nil | 0.01 | 66°15 52°38 48°04 | 51.8 |
| | Maldab | Maldah | 0.03 | | | | | | | 1 Nil | 0.03 Nil | 0.03 Nil | 0°10 0°12 | 64°65 50°62 | 50°9 |
| 4 | | Gajol Sibganj | 0.12 | | | | | | | Nil 1 | Nil 0.12 | Nil 0'12 | 1 | 84°40 62°66 | 1 |
| | Dinagepore | Mohadebpore Churamon | | | | | | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0°03 Nil 0°05 | 67°94 80°28 92 75 | 55 1 52 1 57 1 |
| | | Balcorghat | | | | | | | | Nil | Nii Nii | Nii Nil | 0 05 Nii | 86'80 81'01 107'04 | 63.4 |
| | Rungpore | Thakoorgaon Banwanigunge (Gyabanda) | | | | ***** | | | | Nil | Nil | Nil Nil | Nii Nii | 123.00 | 61-5 |
| | No. | Rungpore Eurigram Bagdogra | 1.2 | | | | | | | Nil | Nil Nil | Nil Nil | Nil Nil | 95'59. 111'2s | 72.6 |
| | | (Nilphamari) | | | | | | | | Nil Nil | Nil Nil | Nil Nil | Nil | 97-52 | 1 |
| | Julpigoree | Alipore Dooar Fallacotta | | | ***** | | | | | Nil Nil Nil | NII NII | Nil Nil Nii | | 187'47 146'30 | 116 |
| EST TO MINE | | Bhagatpore (Nagrakatta) | | ***** | 1 | | | | | Nil | Nil | Nil Nil | Nil | 115'70 182'64 128'05 | , |
| | Cooch Behar. | Good Behar Mickilgunge | | | 1 | | | | | NII NII | Nil Nil Nil | Nil Nil Nil | Nit Nit | 169 37 146 35 | 94 4 117 4 104 6 |
| | Darjeeling | Marabhanga | | | | | | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nii | Nil 0:15 Nil | 171.61 210.64 178.31 | 1:1'8 190'8 1:1'8 |
| | Hill | Darjeeirus Kalimpong | 135. | | | | | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0.05 0.01 | 150°42 123°00 192°78 | 107'11 |
| ORTH BEHAR | Purnesh | Kurseong Kissengunge | | | | | | | | Nil Nil | Nil Nil | Nii Nii | Nil Nil | 195-88 83-78 | 69.66 |
| | | Purneah | | | | | ****** | | | Nil Nil Nil | NII NII NII | Nil Nil Nil | 0.01 | 89 36 100'45 | 60.01 |
| | | Haliari Kaliaganj | | 1000 | | | | ****** | ****** | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0.02 | 63°05 118°55 61 61 | 48 9 |
| | North Bhagul- por | Soppool | | | | | | ****** | | Nil Nil | Nil Nil | Nii Nii | Nil | 63°21 49°30 | 47:5 |
| | Durbhungs | Tajpore | | | | | | | | Nil Nil | Nil Nii Nii | Nil Nil Nil | 0.05 0.01 Nil | 51.70 58.56 62.61 | 42°38 45°09 44°20 |
| | | Bahera Roshera | | | | | | ***** | | Nil Nil Nil | Nil Nil Nil | NII NII | 1 | 52'68 | ; |
| | Mozufferpore | Sitamerhi Mozufierpore | | | | | | ***** | | Nil Nil | Nil Nil | Nil Nil | NII 0 02 0 06 | 52°96 56°18 48°60 | 42'87 44'62 41'20 |
| | | Paru | O THE RESIDENCE OF | ***** | ****** | ***** | | | ***** | Nil Nil Nil | Nil Nil | Nil Nil Nil | 1 | 70°81 44°79 53°18 | |
| | | Sinhar Pupri | | | | ****** | | | ****** | Nil Nil | Nil | Nil Nil | | 50:19 | |

Statement of Rainfall in Bangal for the week ending Friday (8 a.m.), the 7th of November 1890 -coneld.

| | | | | | В | CAINFAL | L. | | | Ť an | AL | | | | |
|---|---------------------|--|----------------------------|--------------------------|--------------------------|---------------------------|-----------------------------|----------------------------|---------------------------------------|--|--|---|---|---|--|
| M steorological Division. | District. | Station. | Saturday, 1st November, | Sunday. 2nd November. | Monday, 3rd November. | fuesday, 4th November. | Wednesday, 5th November. | Thursday, 6th November. | Priday, 7th November, | Number of raing days. | Rainfall of week. | Total rainfall since lat of month. | Average total rainfall from 1st of month. | Total rain- fall since 15th May 1890, | Average rainfait from 1523 May to date. |
| NORTH BEHAR -concluded. | Chumparun, | Motihari Bertiah Bayaha Burhurwa | | | | | | | | Nil Nil Nil Nil | NII NII NII NII | Nil Nil Nil Nil | Nil Nil | 72:06 61:80 58:36 | 41 04 47 81 |
| | Sarup | Gopalgunge | | | | | | ****** | | Nil | Nil | Nil | 0.03 | 52'67 | |
| Copen Bessan | Shahabad | Se vin Chuprah Buxir Dehree Bhabooah Sasserain Arrah Mohaniah | | | | | | | | Nil Nil Nil Nil Nil Nil Nil Nil | NII NII NII NII NII NII | Nil Nil Nil Nil Nil Nil Nil | 0.03 0.02 0.05 Nil 0.33 0.05 0.04 | 50°84 48°27 52°47 43°14 41°11 44°19 66°96 | 42:34 43:01 39:7: 41:42 39:04 41:13 39:73 30:34 |
| | Gya | Aurungabad Gya Nowadah Jehanabad Arwai Inaunagar Sherrphati Rajauli PakriBarawai | | | | | | | | Nil Nil Nil Nil Nil Nil Nil | NH NH NH NH NH NH NH NH NH NH NH NH | Nil Nil Nil Nil Nil Nil Nil Nil Nil | 0°12 0°23 0°09 0°14 | 59'49 60'04 54'84 55'35 36'81 45'60 54'24 | 41 71 41 74 50 (6 40 trg |
| | Patna | Patna ib sp re kehar Barch Bickram Hilsa | | | | | | | ******* ****** ****** ****** | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 0.02 0.02 0.13 0.12 5 | 50°02 52°13 46°95 43°25 58°33 50°24 | 41'14 40'72 41 07 39'11 |
| | Monghyr | Begooserai Monshyr Jimui Gogri Sheikpura | | | ****** | | | | | NII NII NII NII NII | Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 6.01 0.02 0.03 | 44°29 54°84 60°22 76°44 47°76 | 30 21 45'54 42'78 |
| | pore | Bas ka Raska Kelg mg Bongaon | | **** | W.1 | ***** | | | | Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | 0.02 0.02 5 | 59:77 42:11 62:06 | 43 0 |
| | Sonthal Pergunnals. | Rajmehal Godda Pagour Nya Doomka Deoghur Jamtara Mohasama Nanchat | | 0·f1 2·15 1·30 | | | | | | Nil Nil Nil Nil Nil 1 | Nil Nil 0'11 Nil 2'15 1'80 | Nil Nil Nil 0-11 Nil 2-15 | 0.01 0.03 0.05 0.07 0.06 0.10 | 56-86 51-75 74-16 74-11 40-43 76-43 | 51'00 43'60 54'83 54'41 49'44 47'44 |
| CHUTTA NAG. | Hazaribagh | Pachamba | | | | | | | ***** | Nil | Nil | 1'30 | 0.02 | 55.85 | |
| - * # * * * * * * * * * * * * * * * * * | | (Giridi). Hazaribagh Semtagurah Manudi Hils | | 0.02 | | | | | | Nil 1 | Nil 0 05 | Nil 0:05 | 0°15 0°12 0°22 | 49'95 | 40°64 47°00 45°08 |
| | | Jhoomra Hills Barhi Chatro Karagdeha Kamphar | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 0.00 | 56 80 50 24 47 08 57 34 59 24 | 47 9; 59 u) |
| | Lohardugga | Lohardugga Ranchi Palanow Silli Ralumat Hosseinabad Garwah | | 0'35 | | | | | | Nil Nil Nil Nil Nil | Nil Nil 0 85 Nil Nil | Nil Nil Nil 0°35 Nil Nil | 0.02 0.24 0.33 | 53°19 43°57 44°27 43°85 43°62 41°76 | 48 86 51 to 42 11 |
| | Singbhoom | Chyebassa Chakradhar- pore. Ghatsilla | | | | === | | | | Nil Nil Nil | Nil Nil Nil | Nii Nii Nii | 0.19 | 38·30 33·94 24/84 | 80.81 |
| | Manbhoom | Purulia Gobindpore Kaghungth-pure. | | 0°21 0°40 | == | | | | | Nil 1 | Nil 0'21 0'40 | Nil 0:21 0:40 | 0°14 0°02 7 | 51'46 44'29 38'84 62'26 | 48°3 64°1 |
| | | Barrabhoom Jhalds Chas | | == | | == | = | | | NII NII NII | NII NII NII | Nil Nil Nil | 1 | 44°15 64°71 50°18 | ! |

explanation -indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 11th November 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 7rm OF NOVEMBER 1890.

Weather conditions in the south of the Bay have been unsettled during almost the whole week in consequence of the low pressure which has obtained there from day to day. The effect of this slight disturbance has been felt in the north of the Bay and in parts of Bengal and Orissa, especially the latter, where skies have been overcast and moderately heavy general rain has fallen. At the end of the previous week the depression, which appeared to be approaching the Mairas coast, became more diffused, owing to the fall of pressure in the north of the Bay, and the squally weather subsided; but about the middle of the present week there was a further slight intensification, and this kept up the moist and cloudy weather over the whole Bay and Lower Bengal. Squalls again increased in force in the south of the Bay, especially in the Oirpars, where heavy rain was falling; but, as before, the disturbance failed to concentrate, and disappeared without a definite depression having crossed the coast. Cool clear weather prevailed in the northern districts of Bengal with occasional very light showers, and though considerable amounts of cloud were reported from the stations in the southern districts fine though moist weather was generally experienced, except on Saturday, the 1st of November, when light showers fell in South-West Bengal and heavier ones in Orissa and Chittagong. The rainfall continued in the south of Orissa till the end of the week, and in Chittagong for two or three days. As pressure has been highest in the northern districts and diminished towards the low-pressure area in the south of the Bay, steady light northerly winds continued till the 7th, when directions were more irregular.

Pressure—Has undergone the usual small oscillations, but has been always above the normal. Mean excess varies from "03 inch in Orissa, South-West Bengal, and Chutia Nag-

pur, to '07 inch at a few of the more northern stations.

Temperature—Has been very near y norm if in Ocissa, slightly above in parts of South-West Bengal, North Bengal, and Chutia Nagpur, and considerably below elsewhere. The lowest minimum temperatures were registered in Behar in the early part of the week, in South-West Bengal on the 5th, and elsewhere on the 6th and 7th. In the table below giving the weekly means at representative stations it will be seen that the day temperatures have been considerably below the normal at Darjeeling and Darga, but that elsewhere the defect has occurred chiefly at night. The mean for North Behar is below the normal by 1.6°, for East Bengal by 1.4°, and for South Behar by 7°, while for the other districts it is either normal or slightly below.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 7th November 1890.

| | | | | Normal mean maximum tem- perature for the week ending 7th November, | Actual mean maximum tem- perature for the week ending 7th November 1899. | Variation of actual mean from the normal. | Normal mean minimum temperature for the week ending 7th November. | Actual mean minimum teur- perature for the week enuing 7th Aovember 1890. | Variation of actual mean from the normal. | Normal mean daily tempera- ture for the week ending 7th November, | Actual mean daily tempera- ture for the week ending 7th November 1840. | Variation of actual mean from the normal, |
|--|--|---|---|---|--|--|--|---|--|---|--|--|
| Outtack Calcutta Dacca Burdwan Patna Gya Purnosa Hazaribagh Darjeeling | | = | 111111111111111111111111111111111111111 | 85.7 83.2 83.2 84.5 84.8 85.1 84.5 79.0 56.8 | 84'6 82'4 83'7 84'3 81'6 83'6 81'4 77'7 53'6 | -1'1 -0'8 -1'5 -0'3 -3'2 -1'5 -3'1 -1'3 -3'2 | 71'0 69'5 70'3 68 9 64'9 64'0 62'6 61'9 43'4 | 72.5 65.1 66.0 69.1 64.7 65.3 62.7 62.1 40.0 | +1.5 -1.4 -3.4 +0.2 -0.2 +1.3 +0.1 +0.3 -2.5 | 78'4 76'3 77'8 76'7 74'9 74'6 73'6 70'5 50'1 | 78 6 75:3 75:3 76:6 73:2 74:5 72:1 60:9 47:2 | +0°2 -1°0 -2°5 -0°1 -1°5 -0°6 -2°9 |

Rainfull has been chiefly confined to Orissa, but light showers fell in all districts, except North Behar, in the early part of the week. The average fall for Orissa is 1.42 inches, almost double the normal; for South-West, East and North Bengal about 2 inch; for South Behar 09 inch, and Chutia Nagpur 02 inch. Defect in East Bengal is 52 inch and in Chutia Nagpur 12 inch. The continued showery weather in the south of Orissa is shown by the number of rainy days at Pooree being 6 with a total fall of 2.28 inches, and at False Point 4 with a total fall of 3.69 inches. The heaviest fall reported is 3.01 inches at Banki on the 1st.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 7th of November 1890:—

| | | | TEMPE | RATU | RB. | 2 | .0 | | | R | AINFA | LL. | M Made | | | |
|------------------------------|-------------------------|------------------------|-------------------------|------------------------|-----------------------|--|----------|-----------------|------------|-------------------------|-------------------------------------|------------|----------------|-----------------|----------|-----------------|
| | week. | week. | Averag | es for | week. | above or week. | (| of week | k. | R | ainy da | ув. | Since of me | | | 15th 1890. |
| METROROLOGICAL DIVISIONS. | Highest observed during | Lowest observed during | Of highest of each day. | Of lowest of each day. | Of mean for each day. | Average mean of week a below normal mean of a | Average. | Normal average. | Variation. | Average number in week. | Normal average num- ber in week. | Variation. | Average. | Normal average. | Average. | Normal average. |
| Orissa | 86*9 | 66'8 | 82.2 | 78'0 | 77'1 | 0 | 1.42 | 0.75 | +0.67 | 2.1 | 0.7 | +1'4 | 1.42 | 0.75 | 63 19 | 51 99 |
| South-West Bengal | 86'3 | 62*7 | 83.6 | 68'5 | 76.0 | -0.3 | 0.17 | 0.54 | -9.07 | 0.5 | 0.4 | +0.1 | 0.17 | 0.54 | 56 83 | 51'24 |
| Bast Bengal | 86'2 | 61'5 | 82.7 | 67.4 | 75'0 | -1'4 | 0.17 | 0.60 | -0.23 | 0.4 | 0.4 | -0.3 | 0.17 | 0 69 | 71.42 | 75.28 |
| North Bengal | 85.6 | 57'8 | 8210 | 64'3 | 73 2 | -0.3 | ,0:23 | 0.07 | +0.12 | 0.4 | 0 2 | +0.5 | 0.55 | 0.02 | 95 09 | 68.74 |
| North Bohar | 83*2 | 55.9 | 811 | 62.6 | 71.9 | -1.6 | Nil | 0.01 | -0.01 | 0.0 | 0.1 | -0.1 | Nil | 0.01 | 64:38 | 47'91 |
| South Benar | 84'4 | 58'0 | 83'5 | 63.9 | 73'2 | -0'7 | 0.09 | 0:08 | +0.01 | 0.1 | 0.3 | -01 | 0.09 | 0.08 | 51.66 | 43.00 |
| Ohutia Nagpur | 80.3. | 29.6* | 77.8* | 61.7* | 69.8* | 0* | 0.03 | 0'14 | -0.15 | 0.5 | 0.4 | -0.3 | 0.03 | 0.14 | 46 00 | 48'0 |

[·] Chyebassa not included,

METROROLOGICAL OFFICE, BENGAL; The 11th November 1890. C. LITTLE,

Offg. Meteorological Reporter to the Gort. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of October 1890.

| | Constitution of the state of th | Inches. | Date. Hour. |
|---|--|--------------|--|
| | The mean pressure of the month | 29.843 | |
| | The average pressure of October from 24 years' registers | 29.832 | |
| | The highest pressure in the month | 30.024 | 28th 10 |
| | The lowest pressure in the month | 29 653 | 14th 16 |
| į | The range of pressure | 0.371 | |
| | | Hours. | |
| | The total number of hours of bright sunshine during the month | 208.7 | |
| | The maximum possible number of hours of sunshine | 359.1 | |
| | | 0 | |
| | The mean temperature of the month | 79.1 | |
| | The average temperature of October from 24 years' registers | 81.5 | |
| | The highest temperature in the month | 89.7 | 3rd |
| 3 | The lowest temperature in the month | 66.9 | |
| | The range of temperature during the month | 22.8 | |
| | The mean daily range of temperature | 11.4 | |
| | The greatest range of temperature in one day | 16:5 | |
| | The Brown truly or the property of the propert | Per cent. | |
| | m - 1 - 1314 1414 | 85 | |
| | The mean humidity of the month | 79 | |
| | The average humidity of October from 24 years' registers | 10 | |
| | | Inches. | |
| | The mean vapour pressure of the month | 0.846 | |
| | The average vapour pressure of October from 9 years' registers | 0.854 | |
| | The mean cloud proportion of the month | 3.94 | |
| | The average cloud proportion of October from 13 years' registers | 4.14 | |
| | The total rainfall of the month | 8.54 | |
| | The total rainfall indicated by a Beckley's self-registering rain- | 6.19 | |
| | gauge (mouth of the gauge about 52 feet above the ground) | 8.43 | |
| | The average fall of October from 48 years' registers | 5·61 2·91 | 140 |
| | The greatest fall in 24 hours | Days. | 14th. |
| | The number of rainy days in the month | 11 | |
| | The average number of rainy days in October from 24 years' | | |
| | registers | 10 | |
| | The mean maximum equilibrium temperature of solar radiation | 0 | |
| | during the month | 137-1 | |
| ŗ | The mean difference of sun and air temperatures | 52.5 | |
| | The greatest sun temperature | 153.0 | 10th. |
| à | The greatest excess of sun over air temperature | 64.2 | 10th. |
| | The mean temperature of the nocturnal radiation thermometer | | |
| | on woollen cloth | 70.3 | |
| | The mean depression of the nocturnal radiation thermometer | | |
| | below the minimum air temperature at 4 feet above the | | |
| | ground | 3.2 | |
| | The greatest depression of the nocturnal radiation thermometer | | |
| | below the minimum air temperature | 64 | 25th and 27th. |
| | | Miles. | |
| | The mean movement of the wind per day | 45.7 | * The state of the |
| | The greatest movement of the wind in one day | 161.0 | 14th. |
| | The greatest movement of the wind in one hour | 12.0 | 22nd noon to 1 P.M. |
| | The number of hours with winds from each of the 8 points- | | and an I I.M. |
| | N. 62, N.E. 30, E. 81, S.E. 72, S. 26, S.W. 58, W. 28, N.W. | V. 47 Co | lm 340 |
| | | , , , | |

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore '003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently equal; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA; Calcutta, the 10th November 1890.

For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th November 1890.

| | | | jo s | barometer | | TEMPE | RATURE | | | Hygron | ETRY. | | WIND. | | | |
|--------|-------|-----------------|-------------------------------------|-------------------------------------|-------|----------|--------|----------|----------------|------------------|------------|-----------|----------------------|-----------------|--------------------------|-------------------|
| Month. | Date. | Maximum in sun, | Number of hours bright sunshine. | Mean pressure baron at 32° Fahr. | Mean. | Maximum, | Range, | Minimum, | Mean wet buib. | Vapour pressure. | Dew point, | Humidity. | Prevailing direction | Miles recorded. | Rain. | WRATHER. |
| | K. | 10 | | Inches. | 0 | 0 | 0 | 0 | i | Inches | 0 | 1 % | PART ARE SERVED | 1/12/ | Inches. | |
| Nov. | 2nd | 140.7 | 7.5 | 29.908 | 75.8 | 82.0 | 13:8 | 68.2 | 71.6 | 0.721 | 69-5 | 81 | ENE and calm | 39 | Nil | Partially cloudy |
| " | 3rd | 143.5 | 6.4 | -941 | 76.1 | 82.3 | 12-7 | 69-6 | 69-9 | *649 | 66-4 | 73 | ENE and calm | 61 | | Partially cloudy |
| * | 4th | 140-0 | 9.9 | -979 | 74.8 | 82.7 | 16:1 | 66:6 | 68-9 | -628 | 65.4 | 74 | ENE and calm | 52 | mile s | Chiefly clear |
| " | 5th | 139-4 | 64 | -990 | 74-2 | 81.8 | 16-0 | 65.8 | 69-6 | -664 | 67-0 | 80 | ENE and oalm | 13 | " | Partially cloudy |
| | 6th | 140-8 | 82 | •947 | 74-6 | 81 5 | 14.4 | 67:1 | 70.7 | ·702 | 68.7 | 83 | Calm and variable | 9 | eritorio di Propio di | Chiefly clear, |
| ,, | 7th | 143.8 | 8-0 | -944 | 74-9 | 81-2 | 13.5 | 67.7 | 71.0 | 708 | 68-9 | 83 | Calm and variable | 23 | | Chiefly clear, |
| , | 8th | 138 7 | 6.5 | -993 | 76:1 | 81-3 | 12.5 | 68.8 | 72:2 | .739 | 70.2 | 83 | Calm | . 5 | ., | Partially cloudy, |

| | The mean pressure of the seven days The average pressure of the corresponding | ng period for | 24 years, | sG.'s Off | ice | Inches. 29.957 29.923 | |
|---|---|---------------|-------------------|-------------------|------------|-----------------------------|------|
| | | | | | | Hours. | |
| | The total number of hours of bright sun | shine | , K | 2 25T 2 | 10.00 | 52.9 | |
| | The maximum possible number of hours | | en andre | - | | 78.3 | |
| K | The mean temperature of the seven days | | | | | 752 | |
| | The average temperature of the correspon | nding period | for 24 yes | rs, SG.'s | Office | 77.9 | |
| | The extreme variation of temperature | | | The last | | 16.9 | |
| | The maximum temperature | | | | | 82 7 | |
| | | | | No. of the second | i market s | Miles. | |
| | The highest velocity of the wind in one | hour | | The same | | 9 | |
| | | | | | | lbs. | |
| | The highest pressure of wind on one squ | nare foot | | | ••• | ? % | |
| | The mean relative humidity | | STEEL STEEL STEEL | | | 80 | |
| | The average relative humidity of the co | rresponding | period for | 24 vonre 8 | -G's | 00 | 46 |
| | Office | responding | portou tor | ~1 Jours, ~ | | 74 | |
| | | 100 | WIND AND VA | Carrier Control | All Tales | Inches. | |
| | The total fall of rain from 2nd to 8th N | Jorovahov 180 | 00 | | 生活公司 | | |
| | The average fall of the corresponding pe | | | 'a Office | 1844 | Nil | |
| | The total fall from 1st January to 8th N | lovember 180 | cars, bu. | вошее | | 0.26 | |
| | The everege fell of the corresponding to | miod for 24 r | 0 G | 20 Office | *** | 61.25 | -174 |
| | The average fall of the corresponding pe | | | | | 64.78 | 5339 |

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

a, dew.

N.B. -In the weekly report form 5th to 11th October 1890, read "76.8" for "86.8" as dew point of the 5th October 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 10th November 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of October 1890.

| | | | Inches, | Date. | |
|---|--|-------|---------------|-------------|--|
| | The mean pressure at 10 A.M during the month | | 29.905 | | |
| | The mean temperature at 10 A.M. during the month | | 82.7 | | |
| | The highest temperature during the month | | 92.0 | 3rd. | |
| | The lowest temperature during the month | | 67.9 | 27th. | |
| | The absolute range of temperature during the month | *** | 24.1 | 7 10 1 | |
| | The mean daily range of temperature during the month | * *** | 11.9 | | |
| | The greatest range of temperature in one day during the mo | onth | 17.2 | 27th. | |
| | The mean 10 A.M. humidity during the month | 1. 20 | 76 Inches. | A THE WAY | |
| | The mean 10 A.M. vapour pressure during the month | | .839 | | |
| ì | The total rainfall of the month | | 8.89 | | |
| | The greatest fall in 24 hours | | 2.65 | 14th. | |
| | The number of rainy days in the month | | Days. | Aller March | |
| | | | | | |

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 10th November 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th November 1890.

| | | A.M. | | | TEMP | ERATURE. | | | E | I VGROMETE | Y, | ars. |
|---------|--|--|--|--|---|--|--|--|--|--|--|-------------------------|
| MONTH. | Date. | Pressure at 10 A.M. corrected and reduced to 32° Fahr. | Daily mean. | Maximum. | Range. | Minimum. | Dry bulb at 10 A.M. | Wet bulb at 10 | Vapour pressure at 10 A.M. | Dew point at 10 A.M. | Humidity at 10 | Rainfall past 24 hours. |
| | | Inches. | • | (i) (i) | | 0 | 0 | 0 | Inches. | ۰ | % | Inche |
| ovember | 2nd 3rd 4th 5th 6th 7th | 997 30-039 -051 -016 -016 | 76·4 76·8 76·6 75·0 75·1 76·4 76·4 | 83·4 83·7 84·9 83·1 82·1 33·9 82·9 | 14·1 13·9·16·7 16·3 14·1 15·1 13·1 | 69-8 69-8 68-2 66-8 68-0 68-8 69-8 | 79·2 79·8 80·1 77·4 79·6 78·6 79·8 | 73·1 69·6 70·1 69·6 71·6 70·1 72·6 | *734 *588 *603 *620 *669 *624 *706 | 70·0 62·6 64·2 65·1 67·3 65·2 68·8 | 74 58 58 66 66 64 69 | = |
| | The mea The extr The man | an 10 a.m an tempe reme var ximum to an 10 a.a | rature iation empera | of the of temp ture | seven d erature | lays | = | | | :: | Inches. 30·022 76·1 18·1 84·9 % | |

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, India; The 10th November 1890.

MEMORANDUM.

. Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 18th October 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 18th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 25 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is '9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1886 and 1889—vide the figures below:—

| | 1885. | 1886. | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1890, |
|---|-------|-------|-------|-------|-------|---|-------|
| Ratio of births per 1,000 of the population per | 24'4 | 26.2 | 22'8 | 18'2 | 28'3 | 841 | 25.0 |

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

| | | | 1 | V | TREES E | nding- | | | . ' | VERKS E | INDING- | |
|--|------|--------|---|--|---|--|---|---|--|---|---|---|
| | Town | 8. | | 27th Sept, 1890. | 4th Oct. 1890. | 11th Oct. 1890. | 18th Oct. 1890. | Towns. | 27th Sept. 1890. | 4th Oct, 1890. | 11th Oct. 1890. | 18th Oct. 1890. |
| Burdwan Midnapiore Hughli and Serampore Utterpara Howrah Bali Krishnagar Rannghat Santipore Lessore Rampore Be Darjiling | | ah | | 16'8 9'3 18'1 41'2 28'3 22'9 17'5 17'0 24'0 5'2 19'2 57'2 44'5 21'4 | 53:4 17:0 34:5 47:1 9:4 25:2 28:1 26:3 12:0 26:3 63:1 29:2 13:0 | 13:7 18:6 41:0 49:1 37:7 29:2 31:6 9:5 12:0 17:5 6:1 39:4 51:9 18:8 | 33'6 7'7 49'2 23'6 47'2 24'6 28'1 18'9 8'8 6'1 31'5 51'9 24'0 | Narainganj Chittaxong Comillai Batna City Gya Arrah Mozufferpore Durbbanga Chapra Bhagulpore Monghyr Purneah Poori Total | 11.7 27.0 11.4 26.0 16.1 24.3 38.5 13.1 29.0 39.8 10.4 12.6 | 37'3 6'4 15'4 19'8 36'9 47'9 24'3 40'9 26'2 57'9 10'4 14'7 | 49°7 9°4 27°0 12°3 30°7 45°5 29°2 43°3 48°3 48°3 48°3 48°3 48°3 18°9 | 477 9°- 277 14°- 39°- 20°- 21°- 37°- 40°- 16°- 16°- |

It will be seen that last week the highest birth-rate was returned from Darjiling (51.9) and the lowest from Jessore (6.1).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.8 per 1,000 of the population. The rate of the week is 5.9 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below:—

| | 1885. | 1886, | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1890. |
|---|-------|-------|-------|-------|-------|---|-------|
| Ratio of deaths per 1,000 of the population per | 32.8 | 37'0 | 24'3 | 21.0 | 27.2 | 28.7 | 22.8 |

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

| | 4 | WEEKS 1 | ENDING- | | | , | VEERS E | NDING- | |
|---|---|---|--|--|---|--|---|--|--|
| Towns. | 27th Sept. 1890. | 4th Oct. 1896. | 11th Oct, 1890. | 18th Oct. 1896. | Towns. | 27th Sept, 1890. | 4th Oct. 1890. | 11th Oct. 1890. | 18th Oct. 1890. |
| Burdwan Midnapore Hughli and Chinsurah Serampore Diterpara Howrah Bali Krishnacar Santapore Santapore Bani Kantapore Bani Kantapore Bani Kantapore Bani Kantapore Bani Kantapore Baniling Bacca | 24'4 18'6 21'3 49'1 18'9 14'9 35'1 18'9 6'0 | 30°5 15°5 24°6 29°4 28°3 18°9 24°6 18°9 6°0 12°3 18°4 36°8 22°2 17°5 | 24'4 27'9 27'9 43'2 28'3 18'3 28'1 5'7 12'0 3'5 80'6 44'7 44'5 18'2 | 22'9 12'4 29'5 47'1 37'7 17'8 24'6 7'6 24'9 8'5 | Narainganj Chittagong Comilish Patna City Gya Arrash Mozufferpore Durbhanga Chupra Bhagulpore Moughyr Purnean Poori | 4'1 16'4 15'4 19'8 39'6 33'5 10'8 33'0 11'1 20'8 28'0 6'9 14'7 | 16'6 9'4 77 14'9 67'1 18'2 25'5 35'4 34'2 14'5 14'5 10'4 26'2 | 37°3 16°4 15°4 20°4 54°0 23°9 24°3 26°7 27°2 14°5 20°8 17°3 42°0 | 24' 14' 11' 15' 60' 12' 38' 20' 17' 21' 6' 25' |

It will be seen that last week the highest mortality occurred in the town of Gya (60·1) and

the lowest in Santipore (3.5). No deaths were registered during the week in Jessore town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the following towns:—

| | Ch | olera. | | | F | ever. | | 0 | ther cau | 868. | |
|-----------------------------------|----|--------|--------|--|---|-------|--------------------------------------|----------------|----------|------|--------------|
| | | 1 | nille. | | | | atio per mille. | | | | io per |
| Mozufferpore Gya Patna City | | | 8.9 | Darjiling Gya Rampore I Serampore Bali | | | 51:9 34:8 23:3 23:6 21:1 | Monghyr Gya | | | 12·7 12·3 |

The total mortality from the several registered death-causes in the twenty-seven principal The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2.2 from cholera, against 3. per 1,000 in the preceding week; .04 from small-pox, against .2; 11. from fever, against 12.7; 3.7 from bowel-complaints, against 26; .1 from injury, against .6; and 5.7 from other causes, against 6.1 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Serampore town, there being eight deaths (15.7 per 1,000 of the population).

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.

According to Class.

According to Age.

| | Ratio per mille. | | Ratio per mille. | | | atio per mille. |
|---|------------------|----------------------|---------------------|---|---|--|
| Males Females Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male stad female population | | Hindus Mahomedans | 23:8 20:8 | Under 1 yea 1 and under 5 " 10 ", 15 " 20 ", 30 ", 40 ", 60 years and | 5 years 10 ,, 15 ,, 20 ,, 30 ,, 40 ,, 50 ,, 60 ,, | 176·2 23·5 16·5 9·2 13·5 12·8 14·5 16·2 25·5 68·0 |

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 8th November 1890.

Sanitary Commissioner for Bengal.

| 1 | 1 | | 3 | | | | | | 5 | | 6 | | | | 7 | | | | | | | 8 | | | | 9 | 10 | , | 1 | 1 | 11 |
|----------------|-------------------------------|----------|----------|-----------|--------|----------|--------|--------|----------|-----------------------------|--|----------|------------|---------|-------------------|---------|-----------------|-------------|----------|------------|---------|-------------------|---------|-----------------|-------------|--|--------|----------|--------|-----------------------------------|--|
| | | | | | | | | | 0.191 | \$ 100 5 0 5 0 6 0 | | | | | | | | | M | DRTA | LITY | ACCO | RDIN | 0 TO | -8 | | | | | | |
| | | PO | PULATI | on. | | | 1 | BIRTI | 18. | | | | | | | | | D | iseasc | | | 3.4 | | | | -pad | | | Se | ex. | 9 |
| DISTRICTS. | NAMES OF | | | | Num | вви о | - | OF P | PULAT | KOI | to every | | | DEAT | HS FR | - m | | | RAT | TO PR | a 1,000 | OF PO | PULA | TION P | | 1,000 of p | DEAT | гиз. | Popul | O PER 00 OF LATION NNUM. | |
| DISTRICTS. | MUNICIPALITIES. | Males. | Females. | Total. | Males. | Females. | Total. | Males. | Pemales. | Total. | Ratio of male births 100 female births. | Cholera. | Small-pox. | Fevers. | Bowel-complaints. | Injury. | Other diseases. | All causes. | Cholera. | Small-pox. | Pevers. | Bowel-complaints. | Injury. | Other diseases. | All causes. | Ratio of deaths per lation per annun vious week. | Males. | Feamles. | Males. | | Ratio of male cevery 100 female calculated on the tion such mortalit the total male as population. |
| Burdwan | Burdwan | 18,663 | 16,617 | 34,080 | 6 | 16 | 88 | 9.3 | 24.4 | 33.6 | 37 | | | 12 | 1 | *** | 3 | 15 | | | 18.3 | 1.2 | | 3.1 | 22-9 | 24'4 | 9 | 6 | 25.9 | 19'5 | 139 |
| Miduspore | Midnspore | 16,927 | 16,633 | 33,560 | 2 | 3 | 5 | 3.1 | 4.6 | 7.7 | 66 | | | 1 | 2 | | 5 | 8 | *** | *** | 1.2 | 3.1 | | 7.7 | 19.4 | 27.9 | 5 | 3 | 15'4 | 9.4 | 164 |
| Hughli | Wanted and Publish | 15,858 | 15,829 | 31,687 | 16 | 14 | 30 | 25.2 | 23.0 | 49.2 | 114 | | | 12 | | | 4 | 18 | | | 19'7 | 3.3 | | 6.2 | 29.8 | 27.9 | 12 | 6 | 39.3 | 19-7 | 199 |
| | rah. Serampore | 13,559 | 12,937 | 26,496 | 8 | 4 | 12 | 15.7 | 7.9 | 23.6 | 200 | | 1 | 12 | 8 | 1 | 3 | 24 | | *** | 23.6 | 15:7 | 1.9 | 5.9 | 47.1 | 43.2 | 18 | 11 | 49.9 | 44 2 | 113 |
| Serampore { | Ctterpars | 3,046 | 2,464 | 5,510 | 3 | 2 | 5 | 28.3 | 18'8 | 47-9 | 150 | | | 2 | | | 2 | 4 | | | 18-8 | | | 18.8 | 37.7 | 28.3 | 1 | . 3 | 17.1 | 63.3 | 27 |
| | Howrsh | 53,153 | 37,660 | 90,813 | 21 | 23 | 43 | 12.0 | 12.6 | 24.6 | 95 | 1.5 | | 15 | 10 | 1 | 5 | 31 | - | | 8.6 | 5.7 | .6 | 2.9 | 17.8 | 18.3 | 18 | 13 | 17.6 | 18.0 | 98 |
| Howrah } | p. tr | 7,836 | 6,979 | 14,815 | 4 | 4 | 8 | 14.0 | 14.0 | 28.1 | 100 | | 1 | 6 | - | 144 | | 7 | - | 3.2 | 21.1 | *** | | *** | 24.6 | 28'1 | 3 | 4 | 19.9 | 29.8 | 68 |
| | Krishnagar | 13,263 | 14,214 | 27,477 | 6 | 5 | 10 | 9.4 | 94 | 18.9 | 100 | | | | 141 | - | 4 | 4 | | 12 | | | | 7.6 | 7.6 | 5.7 | 2 | 2 | 7.8 | 7:3 | 106 |
| Nuddea | Ranaghat | 4,028 | 4,655 | 8,683 | 3 | | 3 | 18.0 | 1 | 180 | - | 1 | | 3 | *** | | 1 | 4 | | | 18'0 | 9-6 | | 6.0 | 24-0 | 12.0 | 1 | 2 | 12.9 | 33.2 | 38 |
| | O. allegan | 18,708 | 15,979 | 29,687 | 3 | 0 | 5 | 5.3 | 3.2 | 8.8 | birth. | 1 | | 1 | *** | | 1 | 9 | | | 1.7 | | | 17 | 3.5 | 8'5 | | 2 | | 6.2 | No male |
| Jessore | | 4,830 | 3,665 | 8,495 | | 1 | 1 | | 61 | 61 | No male | | 1 | | | - 15 | | | - | | | 1. | | | | 20.6 | | | | | death. |
| | | (55.2.2) | 9,025 | 19,791 | 7 | 5 | 12 | 18'4 | 13'1 | 31.5 | birth. | | 176 | 10 | 3 | 1 | 2 | 16 | | | 26.3 | 7.9 | 2.6 | 5.2 | 49.0 | 417 | 8 | 8 | 38.6 | 46'1 | 83 |
| Rajshahye | Rampore Beauleah Darjiling | | 2,439 | 7,018 | 6 | , | 7 | 44'5 | 7.4 | 519 | 1 | - | - | 7 | | | | 7 | | | 51.9 | | | | 51% | 44'5 | 3 | -4 | 841 | 85'3 | 40 |
| Darjiling | Danne | 4,579 | History | | 21 | 16 | 37 | 13.6 | 10.4 | 24.0 | 1 - 12 | | 69 | 8 | 3 | | 15 | 28 | 1.3 | | 5-2 | 19 | | 9.7 | 18:9 | 18-2 | 10 | 18 | 12.2 | 25.0 | , 49 |
| Daces } | Dacca | 49,782 | 37,379 | 80,161 | 5 | 1 | 6 | 20.7 | 41 | 24.8 | 201 | | 100 | | 9 | | 2 | 6 | | 100 | 8.5 | 8.2 | | 8.2 | 24.8 | 37-8 | 5 | 1 | 31.5 | 10.2 | \$25 |
| D. 4 | Narainganj | 7,605 | 4,956 | 12,561 | 1 | 3 | 4 | 2.3 | 7.0 | 9.4 | 500 | | | 9 | 4 | *** | | 6 | | *** | 4.7 | 9.4 | | 1 | 14. | 16.4 | 6 | | 23.4 | 1 | No fem le |
| Chittagong | Chittagong | 13,340 | 8,790 | 22,130 | | | 7 | 19.3 | 7.7 | 27-0 | 33 | *** | | 1 | 2 | *** | | 3 | | | 3.8 | 7.7 | 2 | | 111 | 15'4 | 2 | 1 | 12.8 | 9.7 | death. |
| Tipperah | Comillah | 8,153 | 5,353 | 13,506 | 5 | 63 | 44 | 7.5 | 6.8 | 14.3 | 200 | - " | *** | 17 | | | 12 | 49 | 4.2 | | 5.2 | 1.9 | | 3.9 | 15-5 | 20'4 | 31 | 18 | 20.2 | 11.2 | 178 |
| Patna | Patna City | 78,762 | 81,475 | 160,237 | 23 | 21 28 | 58 | 20.5 | 19-1 | 39.6 | 100 | 14 | 1 | 51 | 6 | *** | 18 | 88 | 8-9 | *** | 34'8 | 41 | | 12.3 | 60-1 | 54.0 | 52 | 36 | 70'6 | 49'5 | 143 |
| Gya | Gya | 88,200 | 37,831 | 76,121 | 36 | | 1 | 200 | 10.7 | 20-3 | 107 | 13 | 1 | | | | 1 | 10 | 1 | *** | 9.6 | | - | 1.5 | 124 | 100 | 8 | 2 | 19.8 | 4'6 | 430 |
| Shahabad . | Arrab | 20,960 | 22,505 | 43,465 | 8 | 9 | 17 | 9.6 | 100 | | | 1 | | 10 | | *** | 5 | 39 | 1.5 | *** | | 7.3 | - | 6-1 | 38-5 | 1 | 21 | 11 | 47:3 | 29.1 | 162 |
| Mozufferpore . | Mozufferpore | 23,684 | 19,658 | 42,742 | 11 | 7 | 18 | 13.4 | 8.5 | 27.0 | The State | 11 | "" | 10 | | - | | 26 | 13.4 | *** | 121 | 4.7 | | 3.0 | 20.5 | | 14 | 12 | 21.6 | 19.3 | 112 |
| Durbhanga | Durbhanga | 83,774 | 32,322 | 66,096 | 32 | 15 | 47 | 25.2 | 11 8 | 37.0 | | 3 | | 12 | 6 | | 5 | | 2.4 | *** | 1 3 3 | 6.0 | *** | 9.1 | 20.1 | 27.2 | 10 | 10 | 20*7 | 19.6 | 105 |
| Sarun | Chupra | 25,116 | 96,554 | 51,670 | 19 | 21 | 40 | 19.1 | 21.1 | 40.3 | 90 | 1 | | | 6 | | | 20 | 1.0 | *** | 4.0 | | - | | 17:5 | | 10 | 9 | 17'5 | 16.8 | 104 |
| Bhagulpore | Bhagulpore | 29,640 | 27,813 | 57,463 | 11 | 7 | 18 | 10.0 | 6.3 | 16.3 | | 0 *** | | 13 | 3 | | 3 | 19 | *** | *** | 11.8 | 2.7 | | 2.7 | 21.7 | 100 | 9 | 15 | 16'6 | 26'6 | 62 |
| Monghyr | Monghyr | 28,154 | 29,366 | 57,520 | 15 | 26 | 41 | 13.6 | 23.2 | 37.1 | 67 | | | 9 | 1 | *** | 14 | 24 | | *** | 8.1 | .9 | | 12.7 | 6.9 | 100 | 15.00 | 10 | 61 | 7-9 | |
| Purneah | Purneah | 8,463 | 6,553 | 15,016 | 2 | 23.0 | 2 | 6.9 | | 6.9 | No female birth. | *** | | 2 | ** | *** | | 2 | *** | | 6.9 | *** | *** | - | Shiple | Marie L | 1 | 1 | 15.7 | 36'1 | 77 |
| Poori | Poori | 13,247 | 11,537 | 24,784 | 6 | 2 | 8 | 12.6 | 4.2 | 16.8 | 300 | *** | | • | 4 | 440 | 4 | 12 | | ••• | 8.4 | 8.4 | | 54 | 25.2 | 42.0 | | 8 | 10.4 | 301 | 43 |
| 40 | Total | 550,986 | 510,588 | 1,061,574 | 273 | 207 | 519 | 13:4 | 11 6 | 25.0 | 115 | 45 | 1 | 224 | 75 | 3 | 117 | 465 | 2-2 | *04 | 11.0 | 3.7 | -1 | 5.7 | 20.8 | 25.3 | 208 | 207 | 24'8 | 24-1 | 118 |

| | | 100 | | | tres to | | | S. Siles | | | one's | | -35 | ber it | | ULLIA | | Acco | LEDIL | | | Carlo San | | = (122 | | 11 310 | | | 25 E. | 1.00 | |
|--------------|----------------------------------|-------------|---------|-------------|------------|----------------|-------------|----------|-------------|------------|----------------|---------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------------|---------------|---------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------|
| | | | | | | Cla | 88. | | | | 26.3 | | | H | | | | mu. | 1 | 623 | | Ag | θ, | | 4 | | | HAZ | 24 | | |
| DISTRICTS. | NAMES OF MUNICIPALI- TIRS. | | DRAT | HS AM | ong- | | RATI | O PER | 1.000 o | P POPU | TLA- | | | | | DHAT | us. | | | | 2 | | 1 | LATIO PI | E3 1,000 | OF POPT | LATION | PER AN | NUM. | | |
| | | Christians. | Hindus. | Mahomedans. | Buddhists. | Other classes. | Ohristians. | Hindus. | Mahomedans. | Buddhists. | Other classes. | Under 1 year. | I and under 5 years. | 5 and under 10 years. | 10 and under 15 years. | 15 and under 20 years. | 30 and under 30 years. | 30 and under 40 years. | 40 and under 50 years. | 50 and under 60 years. | 60 years and up- wards. | Under 1 year, | land under 5 years. | 5 and under 10 years. | 10 and under 15 years. | 15 and under 20 years. | 30 and under 30 years. | 30 and under 40 years. | 40 and under 50 years. | 50 and under 60 years. | 60 years and up- |
| Bardwan | Burdwap | | ıı | • | | | | 24.2 | 20 3 | | | 3 | 2 | 2 | 1 | 1 | | 1 | 1 | 3 | 1 | 236'4 | 46'1 | 44'6 | 20.7 | 16.6 | | 7.5 | 11'8 | 63.2 | 35'1 |
| Midnepore | Midnapore | | 7 | 1 | | | *** | 14'0 | 7.2 | | | 3 | 1 | | | | 2 | | 1 | | 1 | 210-0 | 22.1 | | | | 14.2 | | 14'0 | | 28'4 |
| Hurh'i | Hughli and Chin- | | 15 | 3 | | | | 30'9 | 25'3 | | - | 3 | 2 | *** | *** | *** | 1 | 4 | 3 | 1 | 4 | 194'3 | 46'9 | | 741 | | 8'4 | 36'4 | 37'4 | 20.0 | 100.3 |
| | Serampore | | 24 | | | | | 49'5 | | | | | 4 | 3 | 1 | 3 | 3 | 4 | 2 | 1 | 3 | | 115.2 | 62'1 | 23'4 | 71.2 | 29.0 | 41.8 | 30.8 | 27 9 | 112.1 |
| Serampore { | Utterpara | *** | 3 | 1 | - | | | 29'3 | 282-6 | | *** | | | *** | | -1 | | | 2 | | 1 | | | | | 118-2 | | | 148'4 | | 2000 |
| | Howrah | aligner. | 25 | 6 | | | | 191 | 15.2 | | | 5 | 2 | 2 | | 1 | 3 | 2 | 4 | 4 | 8 | 126-0 | 18-8 | 16.5 | | 71 | 6.9 | 5'4 | 17.7 | 37-9 | 110.0 |
| Howrah { | Bali | *** | 7 | | | | | 27.1 | | | | | 2 | | 2 | | | | | | 3 | | 1041 | | 87.6 | | | | | | 2131 |
| (| Krishnagar | - | | 4 | | 1 | | | 25'1 | | | 2 | | | | | | | | | 2 | 209.7 | | | | | | | | | 60.2 |
| Nudden | Ranaghat | *** | 3 | - 1 | 100 | | | 21.3 | 381 | | *** | 1 | 1 | | | | | | | 9 | | 251-2 | 65'4 | | | | *** | *** | | 143'6 | - |
| | Santipore | | 2 | | | 1 | | 5.0 | | 244.7 | | 1 | | | | | *** | | | | 1 | 61.2 | | | | | , | | 134 | 1,5 | 26'5 |
| Jessore | Jessore | | | C Sail | | | | | | | | | | | | | | 12 | | | | | | | | | | | | | 1 |
| Rajshabye | Rampore Beauleah | | 5 | 11 | | | | 26.2 | 58*3 | | *** | 1 | 1 | 3 | | 1 | 2 | 4 | 3 | | 1 | 128.1 | 36-7 | 75.0 | | 31.3 | 25.0 | 57.7 | 63.6 | 13 | 54'0 |
| Darjiling | Darjiling | | 7 | | | | | 79-2 | | | | 1 | . 9 | | | | | 1 | 1 | 2 | | 429'8 | 161'7 | | 10 | | *** | 36'3 | 751 | 496*9 | |
| . (| Dacca | | 13 | - 15 | | 173 | | 16.8 | 19.8 | | 144 | 8 | 2 | | 1 | | 4 | 5 | 1 | 3 | 4 | 219 2 | 141 | | 6.2 | *** | 13.6 | 21'3 | 6.2 | 32.9 | 87'8 |
| Daces { | Narainganj | | 5 | 1 | | "" | | 41'1 | 8'4 | | | | | | | | 3 | | 1 | 1 | 1 | | | | THE | *** | 58'4 | | 37 3 | 66'5 | 79'8 |
| Chittagong | Chittagong | | 2 | 4 | - | *** | | 17.9 | 13.6 | | *** | 1 | | 11 | | | 2 | | 9 | 1 | | 92.4 | | | | | 22.2 | | 461 | 47.9 | |
| Cippersh | Comillah | | 1 | 2 | | *** | | 5*7 | 141 | | *** | | 7. | *** | THE PARTY | | | | | 1 | 2 | 18.00 | | 181 | 1 | | | | | 64'9 | 153'4 |
| Patna | Patna City | | 42 | 7 | | - | | 18.4 | 8.9 | 3 | *** | 4 | 3 | 3 | 3 | | 9 | 8 | 9 | 4 | 9 | 48*3 | 10.7 | 9.3 | 10'8 | 18.6 | 16-2 | 17.9 | 5.2 | 14.7 | 33'9 |
| 358 | Gya | 1 | 75 | 13 | | *** | 1 | 65.0 | 42.0 | | | 12 | 8 | 2 | 3 | 3 | 10 | 10 | 2 | 7 | 26 | 348.6 | 65.5 | 14.9 | 23-2 | 29.8 | 35'3 | 40.8 | 37-2 | 55'4 | 262.7 |
| Shahabad | Arrah | | 7 | 3 | | *** | | 11'7 | 12.6 | *** | ** | 9 | | 2 | 1 | | 9 | 1 | 1 | | | 80.7 | | 20.3 | 11.8 | | 13.2 | 81 | 111 | | 18:0 |
| Mozufferpore | Mozufferpore | | 23 | 9 | | | | 39.8 | 37.5 | | *** | 11 | 9 | 8 | | 1 | 4 | 3 | | ", | 2 | 268.0 | 25-7 | 92'4 | 100 | 17.2 | 24.5 | 22.4 | - | 16.0 | 42.7 |
| Durbhanga | Durbhanga | | 16 | 10 | 4 | | | 17.2 | 29.6 | | *** | 5 | 6 | 3 | 9 | 1 | 4 | 1 | 2 | | 9 | 167.0 | 41'0 | 19-9 | 18.7 | 12.9 | 15.6 | 47 | 14.0 | | 32.6 |
| Strun | Chupra | | 14 | 6 | - | | | 18'4 | 26*2 | | *** | 4 | 100 | 9 | 1 | 9 | | 2 | 2 | ", | 6 | 147.4 | | 17.5 | 10.4 | 30 0 | | 13'4 | 17.1 | 12.6 | THE SALE |
| Bhag-lpore | Bhagulpore | | 12 | 7 | 10.72 | | | 15.7 | 21.1 | Tall of | | 6 | | 2 | | 1 | *** | | | 4 | 3 | 261.3 | 29-8 | 17.7 | | 12.4 | 100 | | | 48'8 | 43'3 |
| Monghyr | Monghyr | | 14 | 10 | *** | 37.8 | | 16.3 | 41'4 | *** | *** | 10 | | 2 | | 1 | 1 | 2 | | - 1 | 4 | | | 147 | 9.1 | 13-8 | 5.0 | 11.7 | 16.3 | 13.1 | 127-25 |
| Purneah | Purneah | *** | 2 | - | | - | | 11.3 | | *** | ** | | *** | 1 | 1 | S. Land | | | | - | | 350*2 | | 32.9 | 43.5 | | | | | 1.52 | V.EUGA |
| Pocri | Poori | - | 12 | TO SEE | | 100 | 11100 | 25'4 | | | 200 | 3 | ", | (Lept | | | | | | THE SA | | 514'0 | 28-9 | 3807 | | 28 0 | 10*7 | 14+0 | 91-9 | 99-9 | 28.8 |
| | Tarre | *** | - | , | *** | | | | | 100 | | - | | | *** | 1 | 2 | 1 | 2 | 1 | - | 514.9 | - | | | 25.0 | 19*7 | 12.8 | 31.3 | 23:3 | |
| | TOTAL | | 317 | 118 | *** | *** | *** | 23.8 | 20'8 | *** | *** | 86 | 42 | 35 | 17 | 21 | 52 | 49 | 39 | 35 | . 86 | -176-2 | 23.5 | 16.5 | 9.2 | 13'5 | 12'8 | 14'5 | 16.2 | 25'5 | 68.0 |

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of July 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. MACHGONG ,, 4 ,,

| | | | TOTAL GOVERNMEN | T AND PRIVATE. | | Priv | ATE. |
|--|--|------------|--|-----------------------|--|-----------------------|--|
| Number of boats | DESCRIPTION. | 7 180 | Quantity-Tons, | | Value, | Quantity. | Value. |
| or ratts. | | Up. | Down. | Total. | Rupees. | Tons. | Rupees. |
| 13 | 1. Grain | 96 | 8 | 104 | 3,375 | 104 | 3,375 |
| | 2. Cotton | | | | | f | |
| 3 | 3. Oilseeds | 16 | | 16 | 1,350 | 16 | 1,350 |
| 2 | 4. Sult | 25 | | 25 | 3,500 | 25 | 3,500 |
| | 5. Piece-goods 6. Metal | | | | | | |
| 33 | 7. Building materials | 464 | | 464 | 410 | 464 | 410 |
| 13 | 8. Miscellaneous | 47 | 215 | 262 | 4,550 | 262 | 4,550 |
| | 9. Fuel | | | | | ****** | |
| *** | 10. Timber | | Serial | 3**** | | | ***** |
| | 11. Damboos | | | | | | ••••• |
| 64 | 12. Total | 648 | 223 | 871 | 13,185 | 871 | 13,185 |
| | | Argue 1 12 | 14 | | | in unda | |
| Barbara a A | | | | | | Supplied L | |
| 111 & 21 rafts. | 13. Total of same month last year. | 153 | 1,280 & 19,112 No. | 1,433 & 19,112 No. | 31,325 | 1,426 & 19,112 No. | 30,225 |
| | | Up. | Down. | Total. | F FLORE | | Rs. |
| | | | | | | | |
| | number of boats ply- g cargo No. | 56 | 8 | 64 | 24 + 25 | ge of month + 26 | 306 |
| A CONTRACTOR OF THE PARTY OF TH | | | | | | restanti | |
| | number of boats ving passenger No. | 2 | 4 | 6 | Total 4-11 | | |
| STATE OF THE PARTY | The Table of the Control of the Cont | | | | Total toll month las | | 050 |
| 5½. Do. | emply boats , | 31 | 40 | 71 | 1000 | Jean . | 656 |
| | registered tonnage, go, private Tons | 648 | 223 | 871 | (4) (F) (F) | | |
| Car | go, private | 010 | 220 | 011 | | | |
| 7. Total | registered tonnage, | | | | Me | morandum of | Tollage. |
| pas | ssenger Tons | 13 | 178 | 191 | | | Valuation 1 |
| 3. Ton-n | mileage | 18,184 | 6,271 | 24,455 | | | Rs. |
| . Estim | ated value of cargo Rs. | . 9,005 | 4,180 | 13,185 | THE RESERVE AND PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PA | not recovere | d |
|). Numb | per of passengers | 6 | 1,514 | 1,520 | mont | | 78 |
| | , bamboos C. ft. | | | | 2. Tollage | | 000 |
| 2. Do., | bullahs ,, | • | | | ~. Tomage | per month . | 306 |
| | ated value of rafts Rs. | | | | | | |
| | e on boats ,, | 123-11-0 | 182-10-0 | 306-5-0 | 3. | Total . | 384 |
| Mark Art . La | REPRESENTATION OF THE PARTY OF | | | 330-3-0 | | Total . | |
| boa boa | ounded tollage on Rs. | | | · ' | | oredited i | Z DOG TO THE RESIDENCE OF THE PARTY OF THE P |
| 3. Tollag | ge on rafts ,, | | | | the ac montl | ecounts of the | 337 |
| | tollage on boats per | | | 0.00 | | | |
| ton | -mile Rs. | | | 0-0-2-40 | 5 D.1 | 3 - 1 1 | |
| | tollage on rafts per | A March | Series of the se | | | due at the the month | |
| 100 | Cubic feet Rs | ****** | | | Jan Co | | |

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

| | | | TOTAL GOVERNMEN | T AND PRIVATE. | | PRIV | ATE. | | |
|---|--|---|---|---|---|---|-------------------|---------------------------------|----------|
| Number of boats or rafts. | DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | Value | | REMARKS. |
| gr raiva. | CAN SEE TO SEE | Up. | Down. | Total. | Rupees, | Tons. | Rupeo | 8, | REM |
| 187 4 27 21 1 33 113 15 6 rafts 1 ,, | 1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos | 717 110 66 6 3 532 83 | 1,476 802 16 407 495 330 c. ft. 25 ,, | 2,193 110 802 82 6 410 1,027 83 830 e. ft. 25 ,, | 1,30,480 30,000 1,01,700 6,770 1,500 7,370 1,81,550 220 85 5 | 2,193, 110, 802, 82, | 1, 7, 1,81, | 700 770 770 500 370 | |
| 401 & 7 rafts | 12. Total | { | 3,196 & 355 c. ft. | 4,713 & 355 c. ft. } | 4,59,680 { | 4,713 & 355 c. ft. | 4,59, | 680 | |
| 326 & 4 rafts. | 13. Total of same month last year. | { | 1,750 & 9,762 No. | 3,296 & 9,762 No. } | 3,65,190 { | 3,235 & 9,762 No. | } 3,65, | 110 | |
| | | Up. | Down. | Total. | | | | | 200 |
| ing | number of boats ply- cargo No. | 192 | 209 | 401 | Total tollag | ge of montl | | Rs. | Α. |
| | number of boats ply- passenger No. | . 87 | 57 | 94 | 24 + 25 | + 26 | 5 | 831 | 6 |
| 51. Ditto | empty boats ,, | 241 | 149 | 390 | Metal talla | | | | |
| 6. Total car | registered tonnage, go, private Tons | 2,769 | 5,036 | 7,805 | Total tolla month last | | me 5, | 142 | 8 |
| 161. Ditte | Government ditto " | | •••• | | | | | | |
| | registered tonnage, ssenger Tons | 1,813 | 1,748 | 3,561 | Me | morandum (| f Tolla | ge. | |
| 71. Ditto | empty boats " | 2,615 | 749 | 3,364 | | | | Rs. | Δ. |
| 8. Toņ-n | nileage | 2,75,178 | 3,37,651 | 6,12,829 | 1. Balance | | | | |
| 9. Estim | ated value of cargo Rs. | 1,96,730 | 2,62,860 | 4,59,590 | mont | ne 1st of | | 539 1 | 2 |
| 0. Numb | per of passengers | 1,272 | 3,736 | 5,008 | 2. Tollage | on month | | 091 | 0 |
| 1. Rafts, | bamboos C. ft. | | 25 | 25 | z. Tomage [| or month | 5 | 831 | U |
| 2. Do., | timbers ,, | | 330 | 330 | | | | 1 | |
| 3. Estim | ated value of rafts Rs. | | 90 | 90 | | | | | |
| 4. Tollag | ge on boats ,, | 2,516-2-11 | 3,308-3-8 | 5,824-6-7 | 3. | Total | 9, | 371 | 3 |
| 5. Compo bos | Rs. | | | | 4. Amount | credited | in he | | |
| | ge on rafts ", | | 6-15-6 | 6-15-6 | month | | 4, | 92 8 | 8 |
| ton | tollage on boats per a-mile Rs. | | | 0-0-1-8 | 5. Balance | due at the e | ad | | |
| 8. Total | tollage on rafts per cubic feet Rs. | .J | | 1-15-5 | | SECTION AND SHAPE OF THE SECTION AND SECTION ASSESSMENT | | 8 10 | 10 |

HIGH LEVEL CANAL, RANGE I. LENGTH OF CANAL OPEN, 33 MILES.

| | | | TOTAL GOVERNMEN | T AND PRIVATE. | | Priv | ATE, | |
|---------------------------------|---|--|--|-----------------------|--------------|-----------------------|----------------------|-------|
| Number of boats or rafts. | DESCRIPTION. | | Quantity-Tons, | A MARINE | Value, | Quantity. | Value. | 8 16 |
| | | Up. | Down, | Total. | Rupees. | Tons. | Rupees, | Reven |
| 139 | 1. Grain | 538 | 4 | 542 | 25,000 | 542 | 25,000 | 1 |
| 1 | 2. Cotton | | 4 | 4 | 900 | 4 | 900 | 483 |
| 15 | 3. Oilseeds | 100 | ••• | 100 | 8.200 | 100 | 8,200 | |
| 64 | 4. Salt | | 151 | 151 | 12,370 | 151 | 12,370 | 1 |
| | 5. Piece-goods | | *** | ***** | | Trans. 1985 | | |
| 13 | 6. Metal 7. Building materials | 48 | 54 | 102 | 390 | 48 | | |
| 49 | 7. Building materials 8. Miscellaneous | 66 | 83 | 149 | 20,620 | 149 | 3 0 20,620 | |
| 4 | 9. Fuel | 29 | | 29 | 80 | 29 | 80 | |
| | 10. Timber | | •••• | | | ****** | | 120 |
| | 11. Bamboos | | | *** | | | | |
| 285 | 12. Total | , 781 | 296 | 1,077 | 67,560 | 1,023 | 67,510 | |
| 305 & 6 rafts. | 13. Total of same month last year | 917 & 20,025 No. | 226 | 1,143 & 20,025 No. | 71,690 { | 1,143 & 20,025 No. | } 71,690 | |
| | | (2,7,2,2,3,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4 | | 20,000 110. | 1 | 0,023110. | , | 1 18 |
| | | Up. | Down | Total. | Total tollar | re of mont | Rs. | ۸. |
| | | | Mark 199 | 200,200 | 24 + 25 | | 1,043 | 10 |
| | number of boats ply- | 196 | 60 | 00 | | | | |
| ınş | g cargo No. | 196 | 89 | 285 | Total talle | | -12 | |
| 5. Total | number of boats ply- | 10 m | | | last year | e of same mo | | 0 |
| | g passenger No. | 12 | 12 | 24 | add your | | 889 | 8 |
| 51. Do. | empty boats " | 63 | 155 | 218 | Mes | morandum of | Tollage. | |
| 6. Total | registered tonnage, | | | | | | | |
| | rgo, private Tons | 996 | 486 | 1,482 | | | 400 | |
| 161. Ditt | o Govt. stores ,, | ` | 218 | 218 | | | Rs | ۸. |
| 17. Total | registered tonnage, | | | | | | | |
| | ssenger - Tons | 344 | 524 | 868 | 1. Balance | not recove | red | |
| 17½. Do. | empty. boats ,, | 298 | 732 | 1,030 | on the | e 1st of | the | 11 |
| 18. Ton-r | nileage | 66,778 | 48,918 | 1,15,696 | | | 200 | 11 |
| 9. Estim | nated value of cargo Rs | 35,970 | 31,590 | 67,560 | 2 Tollows | on m 41 | | |
| | ber of passengers | 323 | 611 | | 2. Tollage p | er month | 1,043 | 10 |
| | , bamboos C. ft. | | \ "11 | 934 | | | | |
| | | | - "" | | | | | |
| | bullahs " | | | | 3. | Total | 1,339 | 6 |
| | nated value of rafts Rs. | | e | (n | | | | 1 |
| 4. Tollag | ge on boats ,, | 621-10-6 | 422-0-3 | 1,045-10-9 | 4. Amount | credited in | | |
| | ounded tollage on ats Rs. | | | | accounts | of the mo | nth 898 | 11 |
| 26. Tollag | ge on rafts " | | | | | | | |
| | tollage on boats per n-mile Rs. | | | 0-0-1.7 | 5. Balance | due at the | | |
| 28. Total 10 | tollage on rafts per 0 cubic feet Rs. | 14 1 (15 to 15) | 10.10 | | of the | month | | 10 |
| | | ***** | Post of Contract o | ****** | y | | NAME OF THE PARTY OF | |

HIGH LEVEL CANAL, RANGE II. LENGTH OF CANAL OPEN, 121 MILES.

| EV. | | | TOTAL GOVERNMEN | I AND PHIVATE. | | Priv | ATR. | | |
|-----------|--|---------|-------------------------|-------------------------|-----------------|--|---------------|-----|---------|
| or of | DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | Value. | 100 | RKS. |
| | | Up. | Down. | Total. | Rupees, | Tons. | Rupees. | | RSWARES |
| | | | | | | | | | |
| 50 | 1. Grain 2. Cotton | 158 | - 15 | 173 | 9,144 | 173 | 9,144 | | |
| 3 | 2. Cotton 3. Oilseeds | | 22 | 22 | 1,687 | 22 | 1,687 | 100 | |
| 2 | 4. Salt | 4 | 2 2 | 6 2 | 930 960 | 6 2 | 930 | | |
| 5 | 5. Piece-goods 6. Metal | **** | | * | | 4 | 960 | 13 | |
| 2 | 7. Building materials | 7 | 7 | 7 | 100 | 7 | 100 | 100 | |
| 26 | 8. Miscellaneous 9. Fuel | | 66 | 73 | 10,001 | 73 | 10,001 | | |
| 2 | 10. Timber | | 666 e. ft | 666 e. ft. | 343 | 666 c. ft. | 343 | | |
| | II. Bamboos | | | | 17196 | | | | |
| | | | | | William ! | | | | |
| 8. | 12. Total | 169 | 666 c. ft | 285 666 c. ft. | } 23,168 { | 285 666 c. ft, | 33,168 | | |
| | 13. Total of same | 407 | 1141 | 5211 | , (| 5161 |) | | |
| & fts. | month last year. | l | 3,000 e. ft. 550 No. | 3,006 c. ft. 550 No. | 30,721 | 3,006 e. ft. 550 No. | 30,693 | | |
| | | Up. | Down. | Total. | | ari kasika | Lang | | |
| | l of boots alm | | | | Total teller | as of mouth | Rs. | A | * |
| | number of boats ply- eargo No. | 61 | 29 | 90 | 24 + 25 | ge of month + 26 | 270 | 0 | |
| otal | number of boats ply- | | | | | | 114 | | |
| ing | passenger No. | 17 | 29 | 46 | Total tolla | ge of sar | ne | | |
| Ditto | empty boats ,, | 51 | 52 | 103 | month last | year | 210 | 7 | |
| otal | registered tonnage, go and boats Tons | 339 | 233 | 572 | | | | | |
| | Govt. ditto " | 11. | | | М | emorandum o | Tollane | | |
| | | | | | | | Market Street | | |
| | registered tonnage, senger Tons | 353 | 421 | 774 | martial LA | W-103 | - 14 - 2 A | | |
| itto | empty ditto ,, | 188 | 126 | 314 | | Modelle Garage Sales of | Rs. | A | |
| n-m | nileage | 7,684 | 18,891 | 26,575 | on th | not recover ie 1st of t | he | | |
| time | ated value of cargo Rs. | 11,356 | 21,469 | 22,825 | month | 1 | 16 | 1 | |
| mb | er of passengers | 150 | 435 | 585 | 0. 17. 11 | | | | |
| afts, | , bamboos C. ft | | | | 2. Tollage p | per month | 270 | 0 | |
| | bullahs ,, | | 666 | 666 | | | | 100 | |
| | ated value of rafts Rs. | | 343 | 343 | 3. | Total | 286 | 2 | |
| | ge on boats " | 131-0-9 | 130-10-9 | 261-11-6 | | | TIME - 600 | | |
| | ounded tollage on | | | | 4. Amount the a | STREET, THE CONTRACT OF THE CO | in he | | |
| | ACCUMULATION OF THE PARTY OF TH | | | | month | | 281 | 8 | |
| tal. | ge on rafts ,, | | 8-5-3 | 8-5-8 | | | | | |
| TOOL | tollage on boats per rile Rs. | | | 0-0-1-85 | 5. Balance | due at the ex | nd | 100 | |
| 100 | tollage on rafts per cubic feet Rs. | | | 100 | | The state of the s | 4 | 9 | |
| GHE! | cubic feet Rs. | E | ***** | 1-3-3 | | | | | |

HIGH LEVEL CANAL, RANGE III. LENGTH OF CANAL OPEN, 19 MILES.

| Number of boats or rafts. | DESCRIPTION. | | Quantity-Tons. | Value. | Quantity. | | |
|---------------------------------|--|--|--|----------|---------------|---|--|
| | | | Quantity—Total | | value. | Quantity. | Value. |
| | | Up. | Down. | Total, | Rupees. | Tons. | Rupees. |
| 36 | 1. Grain | 98 | 10 | 108 | 6,294 | 108 | 6,294 |
| | 2. Cotton | | | | | | ****** |
| | 3. Oilseeds | | | | | | |
| 4 | 1 Solt | 3 | 8 | 11 | 1,360 | 11 | 1,360 |
| î | 5. Piece-goods | | 3 | 3 | 1 070 | 3 | 1,070 |
| Will Control of | 6. Metal | | | | | | |
| 5 | 7. Building materials | | 24 | 24 | 405 | Marin The | |
| 7 | 8. Miscellaneous | | 50 | 50 | 5,664 | 50 | 5,664 |
| SERVICE THE SERVICE SERVICES | 0 Final | | | | | A Maria | A STATE OF THE STA |
| | 10. Timber | | Vie Toller | | | | |
| | 11 Domboss | | | | | | |
| | 11. Damboos | | N. P. San | | | | |
| 53 | 12. Total | 101 | 95 | 196 | 14,793 | 172 | 14,388 |
| | 13. Total of same | | (a) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b | | | | |
| 78 | month last year | 193 | 75 | 268 | 16,888 | 246 | 16,561 |
| | | Up, | Down. | Total. | | | |
| | | | | | | | Rs. |
| . Total | number of boats plying | | 100 | | Total tollage | of month- | |
| car | | 35 | 18 | . 53 | 24 + 25 4 | 0.6 | 227 8 |
| . Total | number of boats ply- | 1 | | 14 4 15 | | | |
| ing | passenger No. | 16 | 29 | 45 | Total tollage | of same mont | h |
| 1 Ditto | empty ditto " | 45 | 41 | 86 | 1-14-50-00 | | WO 1 |
| . Ditto | empty ditto ,, | | | | rast year | *** | 10 16 |
| Total | registered tonnage, | | | | | | |
| OBEGO | and boat Tons | 204 | 146 | 350 | | SE DONOSIO IL NOSAS | ACDING VISION |
| dargo | and bout | | 7.77 | | | | |
| 1. Ditto | Govt. ditto " | | 49 | 49 | Men | norandum of | Tollage. |
| | | | | | | 11012 | TOTAL PROPERTY. |
| | registered tonnage, | | | . 199 | | Commence of | |
| pass | senger Tons | 362 | 422 | 784 | | | |
| | | | | | | | Rs. |
| 1. Ditto | empty ditto " | 195 | 90 | 285 | | | |
| | | 10.000 | | | 1. Balance | not recovere | d |
| . Ton-m | ileage | 12,800 | 11,771 | 24,571 | on the | 1st of th | |
| | | | odin | 7.4 700 | month | | 0 10 |
| . Estima | ated value of cargo Rs. | 5,850 | 8,948 | 14,793 | | | |
| . Numb | er of passengers | 1841 | 763 | 9471 | 2. Tollage p | er month | . 227 8 |
| . Rafts, | bamboos C.ft. | | \ | | | | |
| Do | bullahs ,, | | | | 9 | m. i | 000 |
| SECTION AND PERSONS ASSESSED. | Market A. Commission Commission of Commissio | ***** | | | 3. | Total | . 226 14 |
| 3. Estim | ated value of rafts Rs. | | | | | | |
| Tollan | ge on boats ,, | 110-9-6 | 116-14-6 | 227-8-0 | 1 | | To the last |
| . Tomag | ge on boats ,, | 110-0-0 | 110-11-0 | 221-0-0 | 4. Amount | | n |
| . Compo | ounded tollage on | | | | month | ecounts of th | 007 6 |
| boa | ts Rs. | | | | | | |
| . Tollag | e on rafts ,, | | | | | | |
| | | | | ***** | | | 1 |
| 7. Total | tollage on boats per | | | | | | - |
| ton | -mile Rs. | | | 0-0-1-77 | | | A BENE |
| | | A | | | 5. Balance d | lue at the en | d |
| Potal | tollage on rafts per | THE PARTY OF THE P | The State of State of | | | STREET, SCHOOL STREET, SCHOOL STREET, SCHOOL STREET, SCHOOL SCHOOL STREET, SCHOOL STREET, SCHOOL SCHOOL STREET, SCHOOL STREET, SCHOOL SCHOOL SCHOOL SCHOOL STREET, SCHOOL | 0 10 |
| | cubic feet Rs. | MONOTONIA AND AND AND AND AND AND AND AND AND AN | The state of the s | | | | |

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 61 MILES.

| | | TOTAL GOVERNMEN | T AND PRIVATE. | | Parv | ATE. | | |
|--|--------|-------------------------|-------------------------|-------------------------|---------------------|------------|-------|--|
| paler of DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | Value. | | REMARKS. |
| | Up. | . Down. | Total. | Rupees. | Tons. | Rupees. | | REM |
| 35 1. Grain | | 57 | 57 | 1,456 | 57 | 1,45 | 6 | |
| 2. Cotton 3. Oilseeds | | | | | | | | |
| 4. Salt | | 6 | 6 | 756 | 6 | 75 | 5 | |
| 1 5 Piece-goods 6. Metal | | 1 | 1 | 300 | 1 | 30 | 0 | |
| " 7. Building materials | | ••• 14 | | | | | | |
| 8 8. Miscellaneous | 7 | 23 | 30 | 5,187 | 30 | 5,18 | 7 | ij |
| 9. Fuel 10. Timber No. 214 | ••••• | 1 904 - 4 | 1 004 0 84 | 642 | 1 004 - # | | | |
| 11. Bamboos | | 1,284 e. ft. | 1,284 c. ft. | | 1,284 c. ft | 64 | 2 | |
| 45 & 12. Total | } . 7 | 87 1,284 c. ft. | 94 1,284 c. ft. | 8,341 { | 94 1,284 c.ft. | 8,34 | 1 | SETTINGE SE |
| | (81/2 | | 231 | 1 | (231 | 1 | | |
| 15 & 13. Total of same month last year. | | 2,052 e. ft. 100 No. | 2,652 c. ft. 100 No. | 1,202 | 2,652 100 No. | 1,20 | 2 | |
| | Up. | Down. | Total. | | | | | 1000000 |
| Total number of boats ply- | | | | | | R | 8. A. | S. 15 |
| ing cargo No. | 4 | 41 | 45 | Total tolls | ge of month | h— | | |
| Total number of boats ply- ing passenger No. | 10 | 12 | 22 | 24 + 25 | | | 2 10 | |
| . Ditto empty ditto " | 39 | 5 | 44 | Total toll month las | age of sa | me 1 | 3 11 | |
| Total registered tonnage, cargo and boat Tons | 14 | 176 | 190 | | | 1 | | |
| . Ditto Govt. ditto ", | | ***** | ••• | | | | | - Contract |
| Total registered tonnage, | | | | 1 | Temorandum o | f Tollage. | | |
| passenger Tons | | 99 | 171 | | | | | 100 |
| Ditto empty ditto ,, | 100 | 10 | 110 | | | | 3. A. | |
| Ton-mileage | 116 | 1,700 | 1,816 | | not recove | the the | | |
| Estimated value of cargo Rs. | 1,690 | 6,009 | 7,699 | mon | th | | | |
| Number of passengers | 26 | 177 | 203 | 2. Tollage | per month | 3 | 2 10 | |
| Rafts, bamboos C. ft. | | | | | | | | Contract of the Contract of th |
| Do., bullahs ,, | | 1,284 | 1,284 | 3. | Total | 3 | 2 10 | |
| Estimated value of rafts Rs. | | 642 | 642 | | | | | |
| Tollage on boats ,, | 9-15-0 | 19-12-6 | 29-11-6 | | | | 7.5 | |
| Compounded tollage on | | | | 4. Amoun | | in | | |
| boats Rs. | | | | the | accounts of | | 13 | |
| Tollage on rafts ,, | | 2-15-0 | 2-15-0 | 1101 | A CONTRACTOR | | | |
| Total tollage on boats per ton-mile Rs. | | | 0-0-2-02 | | | , | | The state of the s |
| Total tollage on rafts per 100 cubic feet Rs. | | | 0-3-8 | | due at the month | end | 1 13 | |

SOUTH-WESTERN CIRCLE. MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

| | | 3 | TOTAL GOVERNMENT | AND PRIVATE. | | Priv | VATE. | | 8115 |
|--|--|--|--|---|--|---------------------------------------|----------------|--|------|
| Number of boats or rafts. | DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | v | alue. | |
| | | Up. | Down. | Total, | Rupees, | Tons. | R | upees. | |
| 1,055 3 50 181 13 28 59 535 57 14 rafts 3 ,, | 1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos | 6,005 146 27 88 611 931 79 3,503 c. ft. 600 ,, | 845 4 249 1,554 42 149 39 1,631 410 231 c. ft. 12 ,, | 6,850 4 395 1,554 69 237 650 2,562 489 3,734 c. ft. 612 " | 4,31,915 1,754 42,837 1,54,274 1,70,720 1,82,545 2,720 6,60,766 4,441 1,907 | 4 395 1,554 69 237 650 | 1, 1, 1, | 31,915 1,754 42,837 54,274 70,720 82,545 2,720 60,766 4,441 1,907 89 | |
| 1.981 & 17 rafts. | 12. Total | 7,887 & 4,103 c. ft. | -4,923 & 243 c. ft. | 12,810 & 4,346 c. ft. | 16,53,918 | {12,810 & 4,346 c.ft. | }16 | ,53,918 | |
| 2,342 & 3 rafts. | 13. Total of same month last year. | 9,229 & 3,242 c. ft. | 4,073 | 13,302 & 3,242 c. ft. | } 13,14,827 | {13.302 & 3,242 c.ft. | }13 | ,14,827 | |
| | | Up. | Down. | Total. | | | | | |
| | al number of boats ply- g cargo No. | 1,283 | 698 | 1,981 | Total tolla 24 + 25 + | ge of mont | h- | Rs. | |
| | al number of boats ply- g passenger No. | 680 | 785 | 1,465 | Total tol | lage of s | | | |
| 15½. Di | tto empty " | 343 | .787 | 1,130 | month las | st year | ame | 14,861 | 3 |
| | al registered tonnage, argo Tons | 19,807 | 11,336 | 31,143 | м | emorandum q | f Tol | lage. | |
| | al registered tonnage, assenger Tons | 4,429 | 4,014 | 8,443 | | | | | |
| 174. Di | itto empty " | 1,562 | 3,831 | 5,393 | 100 | | | Rs. | ۸. |
| 18. Tor | ı-mileage | 476.482 | 280,444 | 756,926 | | not recov | 1.000 (0.000) | | |
| 19. Est | timated value of cargo Rs | 8,01,632 | 8,50,340 | 16,51,972 | on the month | e 1st of | the | 7,216 | 0 |
| 20. Nu | mber of passengers | 9,969 | 10,237 | 20,206 | 2. Tollage | per month | ••• | 12,242 | 12 |
| 21. Ra | fts, bamboos C. ft. | 600 | 12 | 612 | | | | | 32.5 |
| 22. D | o., bullahs " | 3,503 | 231 | 3,734 | 3. | Total | | 19,458 | 12 |
| 23. Est | timated value of rafts Rs. | 1,423 | 523 | 1,946 | Deduct | remission* | ••• | 2,241 | 8 |
| 24. To | llage on boats " | 7,515-9-8 | 4,683-7-6 | 12,199-0-9 | | | | 17,217 | 4 |
| | mpounded tollage on oats Rs: | THE RESERVE OF THE PARTY OF THE | | ' | 4. Amoun treasu | AN EUROSCH ENGEN CONTRACTOR | into | | |
| 26. Tol | llage on rafts ", | 39-14-0 | 3-14-0 | 43-12-0 | month | | | 12,295 | 11 |
| 27. Tot | tal tollage on boats per on-mile Pie | | | 0-0-3 | | | | | |
| 28. To | tal tollage on rafts per 00 cubic feet Rs. | THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. | | 1-0-0 | | e due at the | end | 4,921 | 1 9 |

[•] Remission for half tolls on Ghattal steamers Ditto for demurra, e

Total ... 2,241 8

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

| | | | OTAL GOVERNMEN | r and PRIVATE. | | PRIVAT | В. | |
|----------------------|--|-----------|--|--|--|--|-----------|----------|
| Sumber of Fosts | DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | Value. | REMARES. |
| or rafts. | | Up. | Down. | Total. | Rupees. | Tons. | Rupees. | REM |
| 396 | 1. Grain | 2,947 | 1 | 2,948 | 1,38,072 | 2,948 | 1,38,072 | |
| | 2. Cotton | | | | | | | |
| 3 | 3. Oilseeds | | 9 | 9 | 1,350 | 9 | 1,350 | |
| 57 | 4 Salt | | 643 | 643 | 69,675 | 643 | 69,675 | 633 |
| 4 | 5. Piece-goods 6. Metal | | 12 | 12 | 8,750 | 12 | 8,750 | SET. |
| 3 | 6. Metal 7. Building materials | | 8 | 8 | 74 | 8 | 74 | |
| 658 | 8. Miscellaneous | 517 | 622 | 1,139 | 1,12,259 | 1,139 | 1,12,259 | |
| 4 | 9. Fuel | 3 | 3. | 42 | 298 | 42 | 298 | |
| | 10. Timber | | | ***** | | | | 1 |
| | 11. Bamboos | | | | | | ****** | (海) |
| | | | 143 | | | 10 2 3614 | | |
| laut. | | | | | | | | 1387 |
| 1,125 | 12. Total | 3,467 | 1,334 | 4,801 | 3,30,478 | 4,801 | 3,30,478 | 11/8 |
| | | | | | | | | |
| in the | | Emples : | | | 3 | 7 7 7 7 7 | | |
| 1,249 | 13. Total of same | 3,353 | 1,273 | 4,626 | 3,04,572 | 4,590 | 3,04,322 | 44 |
| .,~ | month last year. | | | 4 | | a. C. Sessi | | |
| | I ARRAMAN | | | DWINE DE LA COLUMN | | | 1 | 1 |
| | | Up. | Down. | Total. | m 4 1 4 11 | | Rs. | Α. |
| | al number of boats ply- g cargo No. | 548 | 577 | 1,125 | $\frac{1000}{24 + 25}$ | ge of month | 4,097 | 13 |
| | | | | | | | | |
| | al number of boats ply- | 40 | 00 | | Total tol | lage of sar | ne en | |
| ing | g passenger No. | 48 | 33 | 81 | month las | st year | 4,733 | 15 |
| Tota | al registered tonnage, | | | | | | | 97.00 |
| | rgo Tons | 6,940 | 5,135 | 12,075 | | | | |
| | • | | | POST OF THE PARTY OF | M | emorandum of | Tollage | |
| . Tota | l registered tonnage, | | | | | 200 | Lorange. | |
| pa | ssenger Tons | 653 | 421 | 1,074 | | | | 012340 |
| Ton- | -mileage | 1,30,094 | 1,03,963 | 2,34,057 | 7942 | | Rs. | A. |
| SECTION IN | | 1,49,129 | 1,81,349 | | | | | |
| Esti | mated value of cargo Rs. | | | 3,30,478 | 1. Balanc | e not recover | be | |
| . Nun | aber of passengers | 2,749 | 1,089 | 3,838 | on t | he 1st of t | he | |
| . Raft | ts, bamboos C. ft. | F () | | | mont | | 1,132 | 13 |
| . Do | , bullahs ,, | | | | 2. Tollag | e per month | 4,097 | 13 |
| | | | | | | | | 2012 |
| . Esti | mated value of rafts Rs. | •••• | | ••••• | з. т | otal | 5,230 | 11 |
| Toll | age on boats " | 2,278-6-9 | 1,819-7-0 | 4,097-13-9 | | A H | 0,200 | 1 |
| Com | pounded tollage on | | | | | ito in the Em | | |
| | ats Rs. | 4 A | | | 4. Amoun | nt paid in | to | |
| | | | | | treas | ury during t | he | |
| Toll | age on rafts ,. | | | | mont | To the second se | . 3,065 | 5 |
| Tota | al tollume on bests nor | | | | Vol. To Carlo | | E0.024308 | 0.05 |
| SECTION AND ADDRESS. | al tollage on boats per a-mile Rs. | | | 0-0-3-3 | | | | |
| | | | BALLED BUS | | | | | |
| Lotal | tollage on rafts per 0 cubic feet Rs. | | | | | e due at th | | 5 |
| 10 | | | THE RESERVE THE PROPERTY OF THE PARTY OF THE | THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME | THE RESERVE OF THE PARTY OF THE | of the mont | | |

SONE CIRCLE. PATNA CANAL SYSTEM. LENGTH OF CANAL OPEN, 861 MILES.

| | Age in the same | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL GOVERNMEN | T AND PRIVATE. | | Priv | ATE. | |
|---------------------------------|--|--|------------------|----------------|-----------------------|--------------------------|---|----------|
| Number of boats or rafts. | DESCRIPTION. | | Quantity-Tons. | | Value, | Quantity. | Value. | BEG. |
| 650 | | Up. | Down. | Total. | Rupees, | Tons. | Rupees. | REMARKS. |
| 33 | 1. Grain | Comments | 440 | 440 | 31,865 | 440 | 31,86 | 5 |
| | 2. Cotton | | ***** | | | | | |
| 55 | 3. Oilseeds | 1 | 817 | 818 | 91,220 | 818 | 91,22 | |
| 1 | 4. Salt | 69 | | 69 | 7,158 | 69 | 7,15 | |
| 28 | 5. Piece-goods 6. Metal | 15 | 8 | 166 16 | 17,650 2,835 | 159 | 17,20 | |
| 1 9 | 7. Building materials | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 60 | 80 | 1,005 | 70 | 2,83 71 | |
| 48 | 8. Miscellaneous | 231 | 156 | 387 | 55,194 | 375 | 54,74 | |
| | 9. Fuel | | | | | | | |
| 2 | 10. Timber | 1 20 | | 20 | 1,006 | | | |
| AT SHEET | | L | 1 | 1 | 25 | 1 | 2 | |
| 1 | 11. Bamboos | | 9 | 9 | 150 | 9 | 150 | |
| 178 | 12. Total | 514 | 1,492 | 2,006 | 2,08,108 | 1,957 | 2,05,91 | 3 |
| 183 | 13. Total of same | | | | | | | - |
| | month last year | 603 | 1,437 | 2,040 | 2,01,213 | 1,941 | 1,98,14 | |
| | | Up. | Down, | Total. | | 4 10 13 | F | Ls. A. |
| 4 Total | number of boats ply- | es la periodici | | | Total talles | o of month | | |
| | cargo No. | 63 | 115 | 178 | 24 + 25 | e of month | 2,4 | 37 5 |
| | number of boats ply- | | PARTICIPATION OF | | 21 + 20 | 7 20 | 4,1 | " " |
| ing | passenger No. | 5 | 7 | 12 | to also differ to | | 34 / 12 / 12 / 12 / 12 / 12 / 12 / 12 / 1 | |
| 1. Ditto | empty boats " | 80 | 11 | 91 | Total tolls | ge of san | me | |
| | registered tonnage, | 974 | 0 *** | 0.000 | month last | year | 2,5 | 15 7 |
| carg | Tons | 374 | 2,554 | 3,528 | | | | |
| Total | registered tonnage, | | 10.000 | | | | 1 | Saltri A |
| | enger Tons | 173 | 181 | 354 | | OWE TO SEE | | |
| | | | | | Men | norandum of | Tollage. | |
| a. Ditto | empty boats ,, | 382 | 50 | 432 | | | 1 | |
| . Ton-m | ileage | 82,119 | - 1,66,943 | 2,49,062 | | | R | g. A. |
| . Estim | ated value of cargo Rs. | 46,396 | 1,61,687 | 2,08,083 | 1. Balance on the | not recover | | |
|). Numb | er of passengers | 3971 | 436 | 8331 | month | 130 01 | | 7 11 |
| . Rafts, | bamboos C. ft. | | | | 2. Tollage | per month | 2,43 | 37 5 |
| . Do., | bullahs "" | | 100 | 100 | | | | |
| . Estim | ated value of rafts Rs. | | 25 | 25 | 3. | Total | 9 73 | 15 0 |
| . Tollag | e on boats ,, | 672-4-3 | 1,720-12-9 | 2,393-1-0 | | 2002 | 2,70 | |
| boats | | 22-1-0 | 22-1-0 | 44-2-0 | 4.4 | ought 1 | | |
| . Tollag | e on rafts ,, | | 0-2-0 | 02-0 | 4. Amount the acmonth | credited ecounts of t | 0 50 | 9 14 |
| . Total ton- | tollage on boats per mile Rs. | | | 0-0-1.8 | monen | | 2,00 | |
| | | | | | | | 11/4 19 19 19 | |
| | tollage on rafts per cubic feet Rs. | | | 0-2-0 | 5. Balance of the | due at the e | nd 19 | 5 2 |

ARRAH CANAL SYSTEM. LENGTH OF CANAL OPEN, 65 MILES.

| | _ | | TOTAL GOVERNMENT | AND PRIVATE. | | PRIVA | | |
|---------------------------------------|---------------------------------------|---|--|--|--|---------------|--|--|
| sumber of boats or rafts. | DESCRIPTION. | | Quantity-Tons. | XIII | Value. | Quantity. | Value, | BEMARKS. |
| | | Up. | Down. | Total. | Rupees. | Tons. | Rupees. | REM |
| 28 | 1. Grain | 35 | 350 | 385 | 26,788 | 385 | 26,788 | |
| 1 | 2. Cotton | 4 | - | 4 | 1,556 | 4 | 1,556 | |
| 6 | 3. Oilseeds | | 57 | 57 | 4,607 | 57 | 4,607 | 3800 |
| 19 | 4. Salt | 187 | | 187 | 20,029 | 187 | 20,029 | No. |
| 1 | 5. Piece-goods | 13 | | 13 | 19,900 | 13 | 19,900 | |
| | 6. Metal | 1 | 3 | 4 | 40,550 | 4 | 40,550 | BEG. |
| 15 | 7. Building materials | 28 | 93 | 121 | 899 | 64 | 517 | |
| 35 | 8. Miscellaneous | 39 | 264 | 303 | 22,154 | 278 | 22,133 | 1230 |
| 14 | 9. Fuel | 10 | 198 | 208 | 3,274 | 198 | 2,774 | 1000 |
| *** | 10. Timber | | | 26 | ****** | | | |
| | 11. Firewood Bamboos | | 26 | A. The Control of the | 62 | 26 | 62 | |
| | (Damboos | | | ••••• | | | | |
| 119 | 12. Total | 317 | 991 | 1,308 | 1,39,819 | 1,216 | 1,38,916 | 1 |
| 200 | 13. Total of same | 501 | 1,586 | 2,087 | 1,38,205 | 1,902 | 1,37,401 | 1 |
| | month last year. | | de Transaction | | | | | |
| | | Up. | Down. | Total. | | f | | |
| | | | | | | | Re | з. А. |
| | | | | | Total tollag | ge of month | | |
| | number of boats ply- | 20 | 90 | 110 | 24 + 25 | + 26 | 1,350 | 0 |
| | g cargo No. | 39 | 80 | 119 | | | | |
| | number of boats ply- passenger No. | 4 | 3 | 7 | matal tall | | | |
| Total | g passenger No. | | | | Total tolla | | me 1 605 | 0 |
| | ats No. | 66 | 13 | 79 | month las | t year | 1,605 | 0 |
| | registered tonnage, | | | 324 | | | O STATE OF THE STA | 12000 |
| | rgo Tons | 616 | 1,746 | 2,362 | | | | |
| 7. Total | registered tonnage, | | | | M | emorandum o | f Tollage | |
| | ssenger Tons | 93 | 80 | 173 | Section 1 | emoranaum g | Tomage. | |
| | al registered tonnage, | | | | | | Control of the last contro | SECTION AND ADDRESS OF THE PERSON AND ADDRES |
| en | npty Tons | 314 | 58 | 372 | | | R | S. A. |
| 8. Ton-1 | mileage | 42,896 | 88,407 | 131,303 | | | | |
| 9. Estin | nated value of cargo Rs. | 49,979 | 89,778 | 1,39,757 | 1. Balance on the | not recover | he he | |
| 0 37 | | 000 | 1.000 | 0.050 | month | | 61 | 120015-0010 |
| , Num | ber of passengers | 993 | 1,057 | 2,050 | * | | 70,70 | may) |
| l. Rafts | s, bamboos C.ft. | •••• | | ••••• | 2. Tellage | per month | 1,350 | 0 |
| 2. Do., | , bullahs " | | | | | | to red | 61/X |
| 21. Do., | firewood " | | 2,000 | 2,000 | | | es in our | ictus |
| 3. Estin | nated value of rafts Rs. | | 62 | 62 | 3. | Total | 1,411 | 7 |
| 4. Tolla | ge on boats " | 219-0-9 | 673-13-6 | 892-14-3 | | | L. Louis | |
| 5. Com | pounded tollage on | | | | 4. Amount | | in | 1 |
| bo | ats tollage on Rs. | 228-0-0 | 228-0-0 | 456-0-0 | BUTCH THE PLANT OF THE PARTY OF | | he 1,365 | 15 |
| | | 220-0-0 | | | month | | 1,365 | 10 |
| | ge on rafts ,, | | 1-2-0 | 1-2-0 | | | in the stant | office. |
| 7. Total | tollage on boats per | THE PERSON | | | | | | 626 |
| LO | n-mila De l | | | 0-0-1.97 | | lue at the en | | NI CONT |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | tollage on rafts per | * N. C. | A SECTION OF THE PARTY OF | | of the r | nonth . | 45 | 8 (|
| . Local | O cubic feet Rs. | | The state of the s | 0-0-10 | THE RESIDENCE OF THE PARTY OF T | | A CONTRACTOR OF THE PARTY OF TH | |

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

| | | T | OTAL GOVERNMENT A | ND PRIVATE. | | FRI | VATE. | 333 |
|--|--|---------------------------------------|--|--|--------------------------------------|--|-------------|------------------------|
| Number of boats | DESCRIPTION. | | Quantity-Tons. | | Value. | Quantity. | Value. | RESEARES |
| or rafts. | | Up. | Down. | Total. | Rupees. | Tons. | Rupees. | R R |
| 33 | 1. Grain | e | 600 | 600 | 36,474 | 600 | 36,474 | |
| | 2. Cotton | | 35 | 35 | 2,000 | 35 | 2,000 | |
| 2 | 4. Salt | 2 | | 2 3 | 308 3,940 | 2 3 | 308 | |
| | 5. Piece-goods | 3 1 | ••••• | 1 | 1,160 | 1 | 1,160 | |
| | 6. Metal 7. Building materials | | 119 | 119 | 825 | / j | | HOTE |
| 6 5 | 8. Miscellaneous | 10 | 121 | 131 | 10,347 | 131 | 10,347 | |
| | 9. Fuel | | ***** | | | | ****** | |
| *** | 10. Timber | | | | | | | 1963 |
| ••• | | | | | | | | |
| | | | ow. | 891 | 55,054 | 772 | 54,229 | |
| 46 | 12. Total | 16 | 875 | 891 | 50,054 | **** | 34,228 | |
| 61 | 13. Total of same month last year. | 204 | 798 | 1,002 | 63,621 | 780 | €2,168 | 3 |
| 46 | 1 | Up. | Down. | Total. | | 711 | | - |
| | | | | | | | R | 8. A. P. |
| 1. Total | number of boats ply- | 一点 以在了你 | 46 | 46 | | The Chris | | |
| ing | number of boats ply- | | | | Total tolla | ge of mont | | |
| in | passenger 10. | 10 27 | 9 7 | 19 34 | 24 + 25 | + 26 | 52 | 20 4 (|
| 51. Ditt | o empty " | 21 | | | | | | |
| Total | registered tonnage, | 10 | 1 150 | 1,168 | Total tall | | | |
| cal | rgo Tons | 16 | 1,152 | 1,100 | month ias | | ame 50 | 02 15 9 |
| 7 Total | registered tonnage, | | 049 | F19 | | | | |
| 1 1 Utal | | 270 | 243 | 513 | | | | |
| pa | ssenger Tons | | 32 | 166 | | | | |
| pa | ssenger | 134 | 00 | THE PLANT WAS A STREET | | A CONTROL OF THE PARTY OF THE P | 0 0 77 | |
| pa 71. Ditt | o empty ditto ,, | 134 | | | 1 | 1emorandum | of Tollage | |
| pa 71. Ditt 8. Ton- | o empty ditto ,, | .4,777 | 24,734 | 29,511 | | 1emorandum | | |
| pa 7 | mileage | 4,777 8,225 | | | | not recov | R | |
| pa 71. Ditt 8. Ton- | o empty ditto ,, | .4,777 | 24,734 46,829 | 29,511 55,054 | 1. Balance | not recov | vered the | s. A. 1 |
| pa 71. Ditt 8. Ton- 9. Estir 0. Num | mileage | 4,777 8,225 | 24,734 46,829 | 29,511 55,054 | 1. Balance | not recov | vered the | s. A. 1 |
| pa 7½. Ditt 8. Ton- 9. Estir 0. Num 1. Raft 2. Do. | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs | ,4,777 8,225 740 | 24,734 46,829 708 | 29,511 55,054 1,448 | 1. Balanee on t | not recov | vered the | 25 10 |
| pa 7½. Ditt 8. Ton- 9. Estir 0. Num 1. Raft 2. Do. | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. | ,4,777 8,225 740 | 24,734 46,829 708 | 29,511 55,054 1,448 | 1. Balanee on t | not recov | vered the | 25 10 |
| pa 7½. Ditt 8. Ton- 9. Estir 0. Num 1. Raft 2. Do. 3. Estir 4. Tolla | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, | ,4,777 8,225 740 | 24,734 46,829 708 | 29,511 55,054 1,448 | 1. Balanee on t | not recov | rered the 5 | 25 10 20 4 |
| pa 7½. Ditt 8. Ton- 9. Estir 0. Num 1. Raft 2. Do. 3. Estir 4. Tolls 5. Com | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on | ,4,777 8,225 740 | 24,734 46,829 708 | 29,511 55,054 1,448 | 1. Balance on to mon 2. Tollage 3. | not recover the 1st of the per month | rered the 5 | 25 10 20 4 |
| pa 71. Ditt 8. Ton- 9. Estin 0. Num 1. Raft 2. Do. 83. Estin 44. Tolls 25. Com b | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on oats Rs. | ,4,777 8,225 740 24-13-9 | 24,734 46,829 708 281-6-9 | 29,511 55,054 1,448 306 4-6 | 1. Balance on to mon 2. Tollage 3. | not recov he 1st of th | rered the 5 | 25 10 20 4 45 14 |
| pa 71. Ditt 8. Ton- 9. Estin 0. Num 1. Raft 2. Do. 23. Estin 24. Toll 25. Com b | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on boats Rs. age on rafts ,, mated value of rafts Rs. | 24-13-9 | 24,734 46,829 708 281-6-9 | 29,511 55,054 1,448 306,4-6 | 1. Balance on to mon 2. Tollage 3. | per month Total | rered the 5 | 25 10 20 4 45 14 |
| Pa 74. Ditt 8. Ton- 9. Estin 0. Num 1. Raft 2. Do. 23. Estin 24. Tolls 25. Com b 26. Toll 27. Tots | mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on oats Rs. | 24-13-9 | 24,734 46,829 708 281-6-9 | 29,511 55,054 1,448 306,4-6 | 1. Balance on to mon 2. Tollage 3. | per month Total | rered the 5 | 25 10 |

ABSTRACT FOR THE MONTH OF JULY 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

| CANAL. | | TRA | PFIC, | 1890-91. | | | | TRA | PPIC. | 1889-90. | | | |
|---------------------------|------------|-------|-------|---------------|-----|-----|------------|-------|-------|---------------|-----|-------|---|
| CANAL | During the | nonth | | To end of the | moi | th. | During the | montl | h. | To end of the | mon | th. | RBMARKS. |
| Orissa Circle. | Rs. | ۸. | P. | Ŕs. | ۸. | P. | Rs. | Α. | P. | Rs. | Α. | P. | |
| Paldunda Canal System | 306 | 5 | 0 | 1,362 | 4 | 2 | 656 | 14 | 3 | 2,021 | 5 | 10 | |
| endrapara Canal System | 5,831 | 6 | 1 | 18,797 | | 3 | 5,142 | 8 | 7 | 14,095 | 6 | 2 | |
| ligh Level, Range I | 1,043 | 10 | 9 | 2,840 | 14 | 0 | 883 | 8 | 5 | 2,073 | 6 | 2 | |
| Ditto | 270 | 0 | 9 | 1,135 | 1 | 9 | 210 | 7 | 9 | 1,103 | 12 | 3 | |
| Ditto " III | 227 | 8 | 0 | 822 | | 3 | 78 | 15 | 0 | 524 | | 9 | |
| ajepore Canal | 32 | 10 | 6 | 69 | 6 | 4 | 13 | 11 | 8 | 30 | 0 | 0 | |
| Total Orissa Circle | 7,711 | 9 | 1 | 25,027 | 13 | 9 | 6,986 | 1 | 8 | 19,848 | 11 | 2 | |
| South-Western Circle. | | | | | | | | | | MARIE E | | | |
| fidnapore Canal | 12,242 | 12 | 9 | 42,565 | 7 | 3 | 14,861 | 3 | 9 | 52,760 | 10 | 9 | |
| lidgellee Tidal Canal | 4,097 | 13 | 9 | 9,048 | 9 | 9 | 4,733 | 15 | 9 | 20,622 | 0 | 3 | |
| otal South-Western Circle | 16,340 | 10 | 6 | 51,614 | 1 | 0 | 19,595 | 3 | 6 | 73,382 | 11 | 0 | |
| Sone Circle. | | | | | | | | | | | | | |
| 0 10 1 | 0.40% | | | 0.110 | | | 0.515 | 2 | | 10.000 | 10 | | |
| atna Canal System | 2,437 | 5 | 0 | 9,159 | | 2 | 2,515 | No. | 8 | 10,967 | | 2 | 100000000000000000000000000000000000000 |
| irrah ditto | 1,350 | | 3 | 7,529 | | | 1,605 | 0 | 3 | 6,931 | | 10000 | |
| Suxar ditto | 520 | 4 | 6 | 3,420 | 6 | 6 | 502 | 19 | 9 | 2,793 | 5 | 8 | |
| Total Sone Circle | 4,307 | 9 | 9 | 20,109 | 10 | 2 | 4,623 | 7 | 3 | 20,692 | 14 | 3 | |
| GRAND TOTAL | 28,359 | 13 | 4 | 96,751 | 8 | 11 | 31,204 | 12 | 5 | 1,13,924 | 4 | 5 | |

GOVERNMENT TRANSPORT SERVICE.

| | | | 3 | BAFFIC. | , 1890-91. | | | | | | | 2 | CRAP | FIC, | 1889-90. | | |
|---------------------|------------------|-----------|----------|----------|------------------|----------|----------|-------|-----|------------------|-----------|---------|--------|------|------------------|-----------|-----------------|
| CAWAL. | 1 | During th | e month. | | T | end of t | he month | | | 1 | ouring th | e month | | | To | end of th | ne month. |
| | Passen- gers. | Goods. | Total r | eccipts. | Passen- gers. | Goods. | Total r | eneip | ts. | Passen- gers. | Goods. | Total r | receij | pts. | Passen- gers. | Goods. | Total receipts. |
| Orissa Circle. | No. | Mds. | Rs. | A. P. | No. | Mds. | Rs. | ۸. | P. | No. | Mds. | Rs. | ۸. | P. | No. | Mds. | Rs. A. |
| High Level | 1,396 | 759 | 1,649 | 2 10 | 3,132 | 3,720 | 3,630 | 6 | 3 | 1,181 | 644 | 1,157 | 9 | 2 | 2,139 | 3,296 | 2,356 12 |
| Total Orissa Circle | 1,396 | 759 | 1,649 | 2 10 | 3.132 | 3,720 | 3,630 | 6 | 3 | 1,181 | 644 | 1,157 | 9 | 2 | 2,139 | 3,296 | 2,856 12 |

TOTAL NAVIGATION RECEIPTS.

| | 10 m | EARNINGS, | 1890-91. | | | | EARN | INGS, | 1889-90. | | | |
|---|---------------------------------------|---|-------------------------------------|--------|------------------|-----------------------------------|-------|-------------------|--------------------------------------|-------|-----|---------|
| CANAL. | During the I | nonth. | To end of the | month. | | During the r | nonth | | To end of the r | nonth | . / | REMARKS |
| | Rs. | A. P. | Rs. | Α. | Р. | Rs. | Δ. | P. | Rs. | ۸. | P. | |
| rissa Canals idnapere Canal idgellee Tidal Canal me Canals | 9,360 12,242 4,097 4,307 | CONTRACTOR OF THE PARTY OF THE | 28,658 42,565 9,048 20,109 | 7 9 | 0 3 9 2 | 8,143 14,861 4,733 4,623 | 2007 | 10 9 9 3 | 22,205 52,760 20,622 20,692 | 0 | 9 3 | |
| Total | 30,009 | 0 2 | 1,00,381 | 15 | 2 | 32,362 | 5 | 7 | 1,16,281 | 0 | 11 | |

CALCUTTA,
The 10th November 1890.

G. A. G. SHAWE,

1.4

Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 18th October 1890, as compared with the corresponding week of the previous year.

| | tulai . | | WEEK E | NDING SATUR | DAY, THE | WEEK ET | NDING SATURE H OCTOBER 18 | PAY, THE |
|--|-----------|---|---------------------------|--|------------------------------|--------------------------|--|--------------------------------|
| NATURE | OF CARGO. | | Number of boats. | Weight of cargo. | Tollage. | Number of boats. | Weight of cargo. | Tollage. |
| | | 1 | No. | Mds. | Rs. | No. | Mds. | Rs. |
| Rice and paddy Jute Pirewood Other articles | e ewood | | 307 184 91 1,116 | 58,860 99,410 62,625 3,00,140 | 957 1,8.2 794 4,361 | 309 222 174 919 | 63,310 1,90,800 90,100 2,02,485 | 957 2.774 1.339 3,078 |
| A BANGE OF SHIP | Total | | 1,698 | 5,21,035 | 7,924 | 1,624 | 5,46,695 | 8,148 |

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 25th October 1890, as compared with the corresponding week of the previous year.

| | | | WEEK EN 25T | DING SATURD H OCTOBER 18 | AY, THE 90. | WEEK EN 26TH | DING SATURD OCTOBER 188 | AY, THE |
|--|-----------|----|--------------------------|--|--------------------------------|--------------------------|--|------------------------------|
| NATURE | OF CARGO. | 14 | Number of boats. | Weight of cargo. | Tollage. | Number of boats. | Weight of cargo. | Tollage. |
| | | | No. | Mds. | Rs. | No. | Mds. | Rs. |
| Rice and paddy Jute Firewood Other articles | ood | : | 338 361 182 850 | 57,000 2,11,930 95,075 1,91,425 | 884 3,776 1,348 3,046 | 240 205 138 961 | 59.700 94,715 51,200 2,11,555 | 931 1,663 803 2,953 |
| | Total | | 1,731 | 5,55,430 | 9,054 | 1,544 | 4,17,230 | 6,34 |

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st November 1890, as compared with the corresponding week of the previous year.

| NATURE | OF CARGO. | | WREK ET | NOVEMBER 1 | 990, THE | WEEK EN 2ND | DING SATURD NOVEMBER 18 | AY, THE 89. |
|--|-----------|---|----------------------------|--|--------------------------------|----------------------------|--|------------------------------|
| | | | Number of boats, | Weight of cargo. | Tollage, | Number of boats. | Weight of cargo. | Tollage. |
| ** | | | No. | Mds. | Rs. | No. | Mds. | Rs. |
| Rice and paddy Jute Firewood Other articles | = | Ξ | 419 345 165 1,228 | 55,060 1,78,010 93,925 2,57,100 | 906 3,227 1,351 3,562 | 184 193 126 1,196 | 26,950 85,350 45,450 2,89,920 | 408 1,558 689 4,108 |
| | Total | | 2,157 | 5,84,095 | 9,046 | 1,699 | 4,47,670 | 6,758 |

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 1,525} miles open.

| | COACHIN | G TRAFFIC. | | AND MINERAL | Other earnings | | | TRAIN-MIL | ES RUN. |
|--|-----------------------|----------------------------|--------------------|-------------------------|-------------------------|-----------------------------|-----------|-------------------|------------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | Potal earnings. | Coaching. | Merchan- dise. | Total. |
| | | Rs. A. P. | MDs. s. | RS. A. P. | Rs. A. P. | Rs. A. P. | | 3 | |
| Total traffic for the week Or per wile of railway | *826,717 | *2,85,069 1 0 186 13 11 | 16,85,132 10 | 4,94,933 5 0 324 7 0 | 15,721 6 0 10 4 11 | 7,95,7:3 12 0 521 9 10 | 70,561 | 72,322 | 142,838} |
| Per previous 17 weeks of half- year | 3,783,582 | 38,89,927 4 0 | 3,14,35,006 30 | 71,44,939 8 6 | 2,75,334 0 8 | 1,13,10,200 13 2 | 1,073,605 | 1,289,159} | 2,362,7651 |
| Total for 18 weeks | 4,010,299 | 41,74,998 5 0 | 3,31,20,139 0 | 76,39,872 13 6 | 2,91,055 6 8 | 1,21,05,924 9 2 | 1,144,122 | 1,361,4811 | 2,505,6034 |
| COMPARISON. | | | 0.0 | | | 100 | 100 | | |
| Total for corresponding week of previous year Permile of railway correspond- | 258,1831 | 3,30,246 5 10 | 18,52,089 10 | 4,75,186 15 9 | 19,998 11 4 | 8,25,382 0 11 | 67,842 | 72,605 | 110,447 |
| ing week of previous year Total to corresponding date of previous year | 4,279,1934 | 216 7 9 45,20,792 1 3 | 3,73.37,383 30 | 81,00,211 12 8 | 13 1 9 3,04,658 12 2 | 541 0 11 1,29,25,662 9 8 | 1,173,771 | 1,433,730 | 2,607,501 |

[•] The falling off in coaching traffic is chiefly in 3rd class passengers booked from N.-W., O. & R. and B. B. & C. I. Rys.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

| Recuip? | es por were November | ENDING 1889. | | TS FOR WEEK NOVEMBER 1 | | AT | RECEIPTS PRO RIL 1889 TO 2N OVEMBER 1889 | D | AI | RECEIPTS FRO PRIL 1890 TO 18: NOVEMBER 1890 | C. | Total | Total |
|----------------------------|-------------------------|------------------|----------------------------|---------------------------|------------------------|----------------------------|--|---------------------|----------------------------|---|---------------------------------------|----------------------|----------------------|
| Mean m lenge worked. | Receipts. | Per mile worked. | Mean milesge worked. | Receipts. | Per mile worked. | Mean mileage worked, | Total receipts. | Sec. 2017 1971 1971 | Menn mileage worked. | Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| 1,5251 | Rs. 8,25,382 | | | 1,5254 | Rs. 2,49,52,414 | Ra. 528 | 1,525} | Rs. 2,32,24,855 | Rs. 491 | Rs. | Ra, 17,27,559 | | |

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 57% miles open.

| | COACHIN | G PRAFFIC. | | MERCHANDISE . TRAFF | | PM 26/15/7 J. 7 S. 7 S. 10 S. 10 | Totalearnings. | TRAFFIC | TRAIN-MILE | s RUN. |
|---|-----------------------------|----------------------|----|-----------------------------|---------------------------------|---|--|---------------|-------------------|--------------------|
| | Number of passengers. | Receipte | | Weikst carried. | Receipts. | (estimated). | | Coaching. | Merchan- dise. | Total. |
| | | Rs. A. | Р. | Mos. s. | Rs. A. P. | Rs. A. P. | Re. A. P. | TO WAR | | |
| Total traffic for the week Or per mile of railway For previous 17 weeks of talf- | 9,885 173 | 5,501 7 96 2 | | 40,460 30 707 20 | 2,759 10 0 48 3 11 | 23 8 0 0 6 7 | 8,281 9 0 144 13 4 | 1,937 | 457 | 2,394 |
| year | 198,592 | 1,18,793 1 | 0 | 5,29,749 30 | 35,340 10 0 | 578 7 0 | 1,54,712 2 0 | 22,0324 | 9,106 | 31,1384 |
| Total for 18 weeks | 208,477 | 1,24,294 8 | 0 | 5,70,210 29 | 38,100 4 0 | 601 15 0 | 1,62,996 11 0 | 23,9691 | 9,563 | 58,582‡ |
| COMPARISON. | | H 25200 | | | | | | | | |
| of previous year | 12,292 | 6,804 12 | 4 | 39,167 10 | 2,176 5 0 | 46 10 9 | 9,027 12 1 | 1,969 | 955 | 2,924 |
| provious year mile or railway correspond- us week of previous year al to corresponding date of revious year | 2.5 | 118 15 | 5 | 684 30 | 38 0 9 | 0 13 1 | 157 13 3 | | 5 | **** |
| | 245,507 | 1,88,370 15 | 0 | 8,20,055 30 | 39,925 15 0 | 745 15 3 | 1,79,042 13 3 | 26,891 | 13,268 | 40,159 |
| | THE RESERVE OF THE PARTY OF | Charles To Start Co. | | KIND OF THE PERSON NAMED IN | STALL THE PARTY OF THE PARTY OF | PARTY SECURITY OF THE PARTY OF | Control of the last of the las | PREDICT SHAPE | THE RESERVE | THE REAL PROPERTY. |

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, duted 23rd July 1883.

| RECEIP 2ND | NOVEMBER 1 | ENDING 880. | RECEIP | TS POR WERD NOVEMBER | | A | L RECEIPTS PRO PRIL 1889 TO 21 NOVEMBER 1889. | D | A | RECEIPTS FRO PRIL 1890 TO 1: NOVEMBER 1890 | 8T | Total | Total |
|----------------------------|--------------|------------------------|----------------------------|-------------------------|------------|----------------------------|---|------------|----------------------------|--|--------------------------------------|-------------------|--------------|
| Mean mileage worked. | Receipts. | Per mile worked, | Mean uileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked. | Total receipts. | Per mile worked per eek. | Increase in 1890. | decrease if |
| 57à | Ra. 9,028 | Rs. 158 | 57½ | Rs. 8,285 | Rs. 145 | 571 | Rs. 2,93,039 | Rs. 165 | 57} | Rs. 2,89,742 | Rs. 163 | Re | Ra. 3,297 |

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 221 miles open.

| | COACHING | TRAPPI | о. | MERCHANI | RAF | | RAL | Other ear | nings | Total | al | TRAFFIC | TRAIN-MIL | ES RUN. |
|--|-----------------------|--------|-------------|--------------------|-----|-----------|------------|-----------|------------|--------|--------------|-----------|-------------------|---------|
| E. C. C. C. | Number of passengers. | Receip | ots. | Weight carried. | | Receip | 8. | (estimat | ed). | earnii | ıga. | Coaching. | Merchan- dise. | Total. |
| | | Rs | A. P. | Mos. | 8. | Rs. | л. Р. | Rs. | A. P. | Rs | , а. р. | | | |
| Total traffic for the week Or per mile of railway For previous 17 weeks of half- | 18,700 | | 11 0 4 5 | 16,487 | 0 | 584 26 | 8 0 4 7 | 6 0 | 2 0 4 5 | | 10 0 13 5 | 893 | 53 | 940 |
| year | 272,047 | 66,098 | 6 0 | 92,292 | 20 | 8,755 | 9 0 | 88 | 2 0 | 69,942 | 1 0 | 15,863 | 785 | 16,148 |
| Total for 18 weeks | 290,747 | 70,777 | 1 0 | 1,08,779 | 20 | 4,340 | 6 0 | 94 | 4 0 | 75,211 | 11 0 | 16.256 | 838 | 17,004 |
| COMPARISON. | | | | | | | | | | | | | are see a | |
| otal for corresponding week of previous year | 20,749 | 5,190 | | 20,455 | 20 | 410 | 53.6853 | | 3 6 | 170710 | 2 8 | 908 | 135 | 1,048 |
| ing week of previous year otal to corresponding date of | | 233 | 4 7 | | 200 | 18 | 7 1 | - 0 | 5 2 | 252 | 0 10 | ****** | ••••• | ***** |
| previous year | 318,993 | 77,339 | 14 4 | 1,62,099 | 10 | 4,212 | 8 0 | 103 | 10 3 | 81,676 | 0 7 | 16,585 | 1,250 | 17,835 |

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 23rd July 1883.

| | B POR WEEK NOVEMBER | | | TS FOR WEEK NOVEMBER 1 | | A | RECEIPTS FRO PRIL 1889 TO 22 NOVEMBER 1889 | D | A | L RECEIPTS FRO PRIL 1890 TO 18 NOVEMBER 1890. | T | Total | Total |
|----------------------------|------------------------|-----|----------------------------|---------------------------|------------------|----------------------------|--|-----|----------------------------|---|---------------------------------------|----------------------|----------------------|
| Mean miceage worked. | Receipts. | | Mean mileage worked. | Receipts, | Per mile worked. | Mean mileage worked. | Total receipts. | | Mean milenge worked. | Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Re. | Re, | | Rs. | Rs. | | Rs. | Rs. | 24,14 | Rs. | Rs. | Ra, | Rs. |
| 251 | 5,008 | 252 | 221 | 5,270 | 237 | 221 | 1,64,313 | 238 | 221 | 1,60,060 | 232 | | 4,253 |

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 18th October 1890, on 763 miles open.

| | COACHING | TRAFF. | ic. | MERCHANI | | FFIC. | BRAL | Other ea | ted). | Tota | | TRAPPIC | TRAIN-MILE | S RUN. |
|--|-----------------------------|--------------------------|-------|------------------------------|-----|------------------------------|-------|--------------------------|-------|-----------|-------|--------------------|--------------------|--------|
| | Number of passengers. | Coach | | Weight carried. | | Receip | ts. | includ steam-b | | earnin | gs. | Coaching. | Merchan- dise. | Total |
| | | Rs. | A. P. | MD8. | 8. | Rs. | A. P. | Rs. | А. Р. | Ks. | A. P. | | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | 126,752 166 2,066,928 | 73,480 96 8,67,149 | 0 0 | 5,73,633 752 86,24,497 | 0 0 | 1,42,560 187 21,53,285 | 0 0 | 14,850 †2 2,23,472 | 0 0 | | 0 0 | 22,402 | 32,945 | 65,34 |
| Total for 16 weeks | 2,193,680 | 9,80,629 | - | 91,98,189 | | 22,95,845 | - | 2,38,322 | - | 84,64,796 | - | 321,845 344,247 | 490,108 523,053 | 807,5 |
| Catal for corresponding week of previous year | 123,478 165 | 63,101 | 0 0 | 5,63,206 754 | 0 | 1,55,181 | 0 0 | 14,999 | 0 0 | | 0 0 | 22,998 | 32,131 | 55,3 |
| otal to corresponding date of | 2,213,550 | 9,59,083 | 7 | 1.00,92,372 | 0 | 24,27,428 | 0 0 | 2,48,600 | Men's | | 0 0 | 360,444 | 501,951 | 8c1.3 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

| | rs yor wark H October 1 | ENDING 889. | ВЕСЕГРТ 18ТВ | 8 FOR WHER OCTOBER 18 | ENDING | | PRIL 1889 TO 19 OCTOBER 1889. | | RECEIPTS FRO PRIL 1890 TO 18 OCTOBER 1890. | OM 1ST | Total | Total | |
|----------------------------|----------------------------|----------------|----------------------------|--------------------------|------------------------|----------------------------|----------------------------------|---------------------------------------|--|-----------------|---------------------------------------|----------------------|-------|
| Mean mileage worked. | Receipts | | Mean mileage worked. | Receipts. | Per mile worked, | Mean mileage worked. | Total receipts. | Per mile worked per week. | Mean mileage. | Total receipts. | Per mile worked per week. | Increase in 1690. | 1890. |
| 747 | Rs. 2,33,281 | Rs. 312 | 763 | Rs. 2.70,890 | Ra. 303 | 715 | Rs. 57,79,503 | Re. 279 | 759 | Rs. | Rs. 266 | Rs. 70,951 | Rs. |

[·] Audited up to week ending 30th August 1840

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D. AND ASSAM-BRHAR SECTIONS).

Approximate Keturn of Traffic for week ended 25th October 1890, on 763 miles open.

| | COACHIN | g Trappi | c. | MERCHANIT | | FFIC. | ERAI | Ot | her ear | | Total | | TRAFFIC | TRAIN-MIL | ES RUN. |
|--|-----------------------|--------------|--------|--------------------|-----|-----------------|------|--------|------------------|-------|-----------------|-------------|-----------|-------------------|---------|
| | Number of passengers. | Receip | pts. | Weight carried. | | Receip | ts. | | includ team t | | earning | | Coaching. | Merchan- dise. | Total. |
| | | Rs. | A. P. | MDs. | 8. | Rs. | A. P | .13 | Rs. | A. P. | Rs. | A. P. | | | |
| Total traffic for the week or per mile of railway For previous 16 weeks of half- | 135,907 178 | 65,440 86 | 0 0 | 5,65,103 741 | 0 | 1,51,080 202 | 0 0 | | 11,170 †1 | 0 0 | 2,30,590 289 | 0 -0 0 0 | 22,350 | 32,574 | 54,924 |
| year | 2,193,680 | 9,30,629 | 0 0 | 91,98,130 | 0 | 22,95,845 | 0 0 | 2 | ,38,322 | 0 0 | *34,64,796 | 0 0 | 344, 147 | 523,053 | 867,300 |
| Total for 17 weeks | 2,329,587 | 9,96,069 | 0 0 | 97,63,233 | 0 | 21,49,825 | 0 0 | 2 | ,49, 92 | 0 0 | 36,95,386 | 0 0 | 366,597 | 555,627 | 922,224 |
| total for corresponding wek of previous year Per mile of railway correspond- | 111,288 | 61,166 | 361672 | 5,76,618 | | 1,66,456 | | 1.8 | 16,204 | | 2,43,826 | | 22,832 | 34,822 . | 67,654 |
| ing period of previous year Total to corresponding date of previous year | 2,324,788 | 10,20,199 | Media | 1,46,68,990 | adi | 25,93,884 | 0 0 | Milaro | ,64,804 | 0 0 | 38,78,887 | 0 0 | | 596,773 | 920,049 |

^{*} Andited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of grass receipts of the Eastern Bengal State Railway.

| | rs por Wesk n October 1 | | | es por wrek | | | PRIL 1889 TO 2 OCTOBER 1889. | | A | L RECRIPTS FROM PRIL 1889 TO 25 OCTOBER 1890. | | Total | Total |
|----------------------------|----------------------------|------------------|----------------------------|-------------|-----|----------------------------|---------------------------------|---------------------------------------|------------------|---|---------------------------------------|----------------------|-------------|
| Mean mileage worked, | Receipts. | Per mile worked. | Mean mileage worked, | Receipts. | | Mean milease worked. | Total receipts. | Per mile worked per week. | Mean mileage. | Total receipts. | Per mile worked per week. | increase in 1890. | decrease is |
| | Re. | Rs. | | Rs. | Rs. | | Ra. | Rs. | | Rs. | Rs. | Rs. | Rs. |
| 747 | 2,43,826 | 326 | 763 | 2,30,599 | 302 | 715 | 60,14,329 | 280 | 759 | *60,78,014 | 267 | 63,715 | |

[•] Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 125 miles open.

| | COACHIN | G TRAFFI | с. | MERCHANI | | AND MIN | BRAI | Other ear | | Total | | TRAFFIC | TRAIN-MILE | S RUN. |
|--|-----------------------|--------------|-------|--------------------|------|---------|-------|-----------|---------|---------------|------------|--------------|-------------------|--------|
| | Number of passengers. | Coach | | Weight carried. | | Receip | 18. | /estimat | | earnir | | Coaching | Merchan- dise. | Total. |
| | | Rs. | A. P. | M DS. | 8. | Rs. | A. P. | Rs. | A. P. | Rs. | A. P. | 1 | | |
| Potal staffic for the week Or par mile of railway For previous 15 weeks of half- | 22,789 182 | 10,660 85 | 0 a | 50,600 403 | | 4,990 | 0 0 | | 0 0 | 15,730 126 | 0 0 0 0 | 3,668 | 2,000 | 5,66 |
| Jenr | 377,659 | 1,16,389 | 0 0 | 5,98,031 | 0 | 48,267 | 0 0 | 2,538 | 0 0 | 1,67,194 | 0 0 | 53,311 | 30,892 | 84,20 |
| Total for 16 weeks | 400,448 | 1,27,049 | 0 0 | 6,48,631 | 0 | 58,257 | 0 0 | 2,618 | 0 0 | 1,82,924 | 0 0 | 56,979 | 82,894 | 89,87 |
| COMPARISON. | | | | | | | | | | | | | | da 🗼 |
| Total for corresponding week of previous year | 21,539 | 8,384 | 6 0 | 35,682 | 2030 | 3,552 | | | 0 0 | 11,963 | 0 0 | 3.687 | 1,985 | 5,67: |
| ne period of previous year Rai to corresponding date of previous year | 172 434,998 | 1,45,302 | | 10,53,583 | | 99,663 | 0 0 | 2,740 | 570C-EV | 96 2,47,705 | 0 0 | PARTITION OF | 40,763 | 97.18 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

| RECEIP- 191 | R OCTOBER I | ENDING | RECEIPT 18TI | S POR WEEK | | | L RECRIPTS FRO 1889 TO 19TH OC 1889. | | | , RECEIPTS FRO 1890 TO 18TH OC 1890. | | Total | Total |
|----------------------------|---------------|------------------|----------------------------|---------------|------------------|----------------------------|--|---------------------------------------|----------------------------|--|---------------------------------------|----------------------|----------------|
| Moan mijeace w.cked. | Recorpts. | Per mile worked. | Mean mileage worked. | Receipts. | Par mile worked. | Mean milease worked. | Total receipts. | Per mile worked per week. | Mean mileage worked, | Total receipts, | Per mile worked per week. | increase in 1890, | dacrense 1890. |
| 126 | Rs. 11,045 | Ra. 96 | 125 | Rs. 15,730 | Rs. 126 | 125 | Rs. 4,27,552 | Rs. | 195 | Rs. *3,48,432 | Re. 96 | Rs | Rs. 79,120 |

[.] Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 125 miles open.

| NAME OF THE PARTY | COACHIN | g Trappi | c. | MERCHAND | RAF | | RRA | L | Other ea | | | Total earni | | TRAFFIC | THAIN-MIL | BS RUN. |
|---|-----------------------|----------|-------|---------------|-----|----------|------|-----|----------|------|---|-------------|------------|----------|-------------------|---------|
| | Number of passengers, | Receip | ts. | Weight carri | ed. | Receip | ta. | A S | (estima | ted) | | Losar earm | odd Odd | Coaching | Merchan- dise. | Total. |
| | | Rs. | А. Р. | MDs. | 8. | Rs. | A. 1 | Р. | Rs. | A. P | | Rs. A. | P. | | | |
| Total traffic for the week Or per mile of railway For previous 16 weeks of half- | 25,t56 204 | | 0 0 | A ACCOUNT | 0 | | 0 | 0 | 60 91 | 0 0 | 0 | 11,390 0 | | 3,660 | 1,992 | 5,65 |
| Total for 17 weeks | 426,044 | 1,27,049 | - | 6,48,631 | - | 56,587 | | - | 2,618 | 0 0 | | 1,82,024 0 | - | 60,639 | 22,892 34,884 | 95,5 |
| COMPARISON. Total for corresponding week of previous year Per mile of railway corresponding week of previous year | 18,332 | 7,534 | I | 29,479 286 | | 2,395 | | 0 | 54 | 0 0 | 0 | | 0 | 3,587 | 2,085 | 5,67 |
| Total to corresponding date of previous year | 458,330 | 1,52,836 | 0 0 | 10,68,062 | 0 | 1,02,058 | 0 | 0 | 2,794 | 0 | 0 | 2,57,688 0 | 0 | 60,008 | 42,848 | 1.02,8 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

| | TS FOR WEEK | | | rs FOR WHEK | | AT | L RECEIPTS FRO RIL 1889 TO 26: OCTOBER 1889. | | | L RECEIPTS FRO PRIL 1890 TO 25 OCTOBER 1890. | TH | Total | Total |
|----------------------------|-------------|------------------------|----------------------------|-------------|-----------------|----------------------------|--|---------------------------------------|----------------------------|--|---------------------------------------|-------------------|-------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked | Mean milenge worked. | Total receipts, | Per mile worked per week. | Mean mileage worked. | Total receipts. | Per mile worked per week, | increase in 1890. | decrease in 1890. |
| | Rs. | Rs. | | Rs. | Rs. | | Rs. | Rs. | | Rs. | Rs. | Rs. | Rs. |
| 125 | 9,983 | 80 | 125 | 11,390 | 91 | 125 | 4,37,535 | 117 | 125 | * 3,59,822 | 96 |] | 77,713 |

^{*} Audited up to week ending 3oth August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 86 miles open.

| | COACHING | TRAPPI | 0. | | MERCHAND T | | FIC. | ER. | L | Other ear | niz | gs | Tota | 1 | | TRAPPIC | TRAIN-MILI | B RUN. |
|--|-----------------------|--------------|------|---|--------------------|----|--------------|-----|------------|------------|-----|----|--------------|-----|-----|-----------|-------------------|--------|
| | Number of passengers. | Coachi | | | Weight earried. | 1 | Receip | ts. | | (estimat | ed | | earnin | gs. | | Coaching. | Merchan- dise. | Total. |
| | | Rs. | A. P | | MDs. | 8. | Ra | ۸. | p, | Rs. | ۸. | P. | Rs. | ۸. | P. | | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | 15,955 186 | 6,180 72 | 0 0 | | 27,313 318 | | 2,470 29 | 0 | | 180 2 | 0 | 0 | 8,830 103 | | | 2,410 | 6114 | 3,10 |
| year | 227,113 | 71,529 | 0 (| 0 | 2,22,756 | 0 | 19,039 | 0 | 0 | 4,196 | 0 | 0 | 94,764 | 0 | 0 | 35,551 | 10,681 | 46,231 |
| Total for 16 weeks COMPARISON. | 243,068 | 77,709 | 0 (| 0 | 2,50,060 | 0 | 21,500 | 0 | 0 | 4,376 | 0 | 0 | 1,08,594 | U | 0 | 37,961 | 11,875 | 49,386 |
| Total for corresponding week of previous year Per mile of rallway corresponding | 13,394 | 4,906 | 0 | 0 | 21,759 | 0 | 2,027 | 0 | 0 | 101 | 0 | 0 | 7,034 | 0 | 0 | 2,513 | 828 | 3,341 |
| period of previous year Total to corresponding date of previous year | 232,481 | 57 78,553 | 0 | | 3,52,314 | | 24 26,360 | 0 | Ole Ole | 1 3,349 | 0 | | 1,03,262 | | 201 | | 14,326 | 54,24 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

| | B FOR WEEK | | | 18 FOR WEEK 1 OCTOBER 18 | | Δ | RECEIPTS FRO PRIL 1889 TO 10 OCTOBER 1889. | | | PRIL 1800 TO 181 OCTOBER 1890. | un | Total | Total |
|----------------------------|------------|-----------------|----------------------------|-----------------------------|------------------------|----------------------------|--|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------|----------------------|----------------------|
| Mean mileage worked. | Receipts. | Per mile worked | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per week, | Mean inileng worked. | Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| * | Re. | Rs. | | Rs. | Re. | | Ra. | Rs. | | Rs, | Ra. | Ra. | Ra. |
| 86 | 7,034 | 82 | 86 | 8,810 | 103 | - 86 | 1,77,541 | 71 | 86 | *1,85,455 | 74 | 7,914 | ***** |

^{*} Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 86 miles open.

| 194 | COACHING | TRAPPI | 0. | MERCHANDISE TRA | | RRAL | Other | MIT | ings | | | | TRAIN-MILE | B RUN. |
|--|-----------------------|-------------|-------|--------------------|-------------|------|--------|-----|------|-------------|------|-----------|-------------------|--------|
| | Number of passengers. | Conch | | Weight carried. | Receip | ots. | (estin | | | Total ears | ingi | Coaching. | Merchan- dise. | Total. |
| | | Rs. | A. P. | MD8. 8. | Rs. | A. P | R | | . P. | Rs. | A. P | | | |
| Total traffic for the week Or per mile of railway For previous 16 weeks of half- | 10.397 121 | 3,610 42 | 0 0 | 24,187 0 281 0 | 1,880 22 | 0 0 | | | 0 0 | 5,550 65 | 0 | | 694 | 3,104 |
| For previous to weeks of thati- | 243,068 | 77,709 | 0 0 | 250,069 0 | 21,509 | 0 0 | 4,8 | 76 | 0 0 | *1,03,594 | 0 | 37,961 | 11,375 | 49,336 |
| Total for 17 weeks | 258,465 | 81,819 | 0 0 | 274,256 0 | 23,389 | 0 0 | 4,4 | 36 | 0 0 | 1,00,144 | 0 | 40,871 | 12,069 | 59,440 |
| Total for corresponding week of provious year | 12,919 | 4,757 | 0 0 | 26,441 0 | 2,749 | 0 0 | 8 | 86 | 0 0 | 7,892 | 0 | 0 2,521 | 715 | 8,286 |
| ing period of previous year | 150 | 55 | 0 0 | 307 0 | 32 | 0 0 | | 5 | 0 0 | 92 | 0 | 0 | | **** |
| fotal to corresponding date of | 245,400 | 78,310 | 0 0 | 378,755 0 | 29,109 | 0 0 | 3,7 | 35 | 0 0 | 1,11,154 | 0 | 0 42,439 | 15,041 | 57,180 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway

| | rs for week 1 October 1 | | | IS FOR WEEK TH OCTOBER 1 | | AI | L RECEIPTS PROPRIL 1889 TO 26 OCTOBER 1889. | | | L RECEIPTS PROPRIL 1890 TO 25 OCTOBER 1890. | | Total | Total. |
|----------------------------|----------------------------|------------------------|----------------------------|-----------------------------|-----|----------------------------|--|--------------------------------------|----------------------------|--|---------------------------------------|-------------------|----------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean milesge worked. | Receipts. | | Mean mileage worked. | Total receipts. | Per mile worked per week | Mean mileage worked. | Total receipts. | Per mile worked per week. | Increase in 1890. | decrease in 1890. |
| | Rs. | Rs. | | Rs. | Rs. | | Rs. | Rs. | M.S. | Rs. | Rs. | Rs. | Rs. |
| 86 | 7,892 | 92 | 86 | 5,550 | 65 | 86 | 1,85,433 | 78 | 86 - | *1,91,005 | 74 | 5,572 | |

^{*}Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890. on 271 miles open.

| | COACHIN | G TRAFFI | ic. | MERCHAND | | FIC. | ER. | AL | Other ear | | | Tota | 1 | | TRAFFIC | TRAIN-MILI | RB RUS. |
|--|-----------------------|--------------|-------|--------------|-----|-----------|-----|-----|-----------|------|----|--------------|-----|-----|-----------|-------------------|---------|
| | Number of passengers. | Coach | | Weight carri | ed. | Receip | ta. | | (estima) | tod) | | earnin | Ks. | | Coaching. | Merchan- dise. | Total |
| | | Ra, | A. P. | M DS. | 8. | Rs. | ٨. | p'. | Rs. | ۸. | p. | Re. | ۸. | P. | • | | |
| Total traffic for the week Or per mile of railway For previous 15 weeks of half- | 4,069 149 | 1,500 65 | | 9,556 351 | | 530 19 | 0 | 0 | 20 | 0 | | 2,050 75 | 0 | | 580 | 170 | 750 |
| YHRP | 42,917 | 15,026 | 0 0 | 1,50,518 | 0 | 8,214 | 0 | 0 | 229 | 0 | 0 | *23,619 | 0 | 0 | 8,172 | 5,384 | 13,556 |
| Total for 16 weeks | 46,986 | 16,526 | 0 0 | 1,60,074 | 0 | 8,744 | 0 | 0 | 249 | 0 | 0 | 25,519 | 0 | 0 | 8,753 | 5,554 | 14,306 |
| Total for corresponding week of pravious vest | 4,420 | 1,505 | 0 0 | 2,808 | 0 | 209 | 0 | 0 | 40 | 0 | 0 | 1.763 | 0 | 0 | 586 | 340 | 926 |
| log period of previous year lotal to corresponding date of previous year | . 102 49,947 | 55 17,978 | | | 68 | 9,237 | 0 | 60 | 1,344 | 0 | £Ν | 65 28,559 | | 591 | 9,226 | 5,812 | 15,038 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nathati State Railway.

| Ruckips 1971 | ts for week a October 18 | ENDING 89. | | S POR WEEK | | | CRICE 1889 TO 19: OCTOBER 1889. | | | PRIL 1890 TO 10 OCTOBER 1890. | STH | Total increase in | Total degreese |
|----------------------------|-----------------------------|------------------|----------------------------|------------|------------------------|----------------------------|------------------------------------|--------------------------------------|----------------------------|----------------------------------|---------------------------------------|----------------------|----------------|
| Mean nileage rorked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked, | | Per mile worked per week | Mean mileage worked. | Total receipts. | Por mile worked per week. | 1890. | 1890. |
| art. | Rs 1,765 | Rs. | 271 | 2.05u | Rs. 75 | 271 | Rs. 54,138 | Rs. | 27t | Rs. | Rs. 65 | Re, | Re. 2.607 |

^{*} Audited up to week enting 30th August 1800.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 271 miles open

| • | COACHING | TRAPPIC. | MERCHANDISE TRAD | AND MINERAL | Other earnings | Total | TRAFFIC | TRAIN-MIL | BB BUK. |
|---|-----------------------|--------------------|-----------------------|------------------|----------------|--------------------|-----------|-------------------|---------|
| | Number of passengers. | Coaching receipts. | Weight carried, | Receipts. | (estimated). | earnings. | Cosching. | Merchan- dise. | Total. |
| Total traffic for the week | 2.761 101 | Rs. 1,070 39 | MDs. 16,195 594 | Rs. 840 81 | Rs. 10 | Rs. 1,920 70 | 500 | 250 | 750 |
| For previous 16 weeks of half- | 46,986 | 16,526 | 1,60,074 | 8,744 | 249 | *25,519 | 8,752 | 5,554 | 14,366 |
| Total for 17 weeks | 49,747 | 17,596 | 1.76,909 | 0,584 | 259 | 27,439 | 9,252 | 5,804 | 15,056 |
| COMPABISON. | | | | | | | | | |
| of pr-vious year | 2.956 | 1,064 | 8,907 | ,611 | 11 | 1,686 | 586 | 412 | 998 |
| period of previous year otal to corresponding date of previous year | 108 52,203 | 19,042 | 327 1,49,203 | 9,848 | 1,355 | 62 30,245 | 0,812 | 6,234 | 16,03 |

Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

| | TH OCTOBER 1 | | | OCTOBER 18 | | AF | L RECEIPTS PROPERL 1889 TO 261 OCTOBER 1889. | | TOTA | L RECEIPTS PROPRIL 1890 TO 25 OCTOBER 1890. | TH | Total | Total |
|----------------------------|--------------|------------------------|----------------------------|------------|------------------------|----------------------------|---|---------------------------------------|----------------------------|--|---------------------------------------|----------------------|-------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked, | Mean mileage worked, | Total receipts. | Per mile worked per week. | Mean mileage worked, | | Per mile worked per week, | increase in 1890. | decrease is |
| | Rs. | Rs. | | Rs. | Rs. | | Ra. | Rs. | | Rs. | Rs. | Rs. | |
| 271 | 1,686 | 63 | 27t | 1,920 | 70 | 271 | 55,824 | 68 | 274 | * 53,451 | 65 | | 2 |

* Audited up to week ending 39th August 1890. BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Keturn of Traffic for week ended 25th October 1890, on 691 miles open.

| | COACHING | TRAFFIC. | | AND MINERAL FFIG. | Other earnings (estimated), | Total | TRAVFIC | TRAIN-MIL | ES BUN |
|--|-----------------------|--------------------|--------------------|-------------------|--------------------------------------|------------------|-----------|-------------------|--------|
| | Number of passengers. | Coaching receipts. | Weight carried, | Receipts. | including steam-boat earnings. | earnings; | Coaching. | Merchan- dise. | Total |
| | | Rs. | Mps. | Rs. | Rs. | Rs. | | 7100 5101 | |
| rotal traffic for the week (on 691 miles open) | 68,660 99'36 | 26,390 38'19 | 2,99,840 433°92 | 40,430 58:51 | 7,830 10.61 | 74.150 107.31 | 12,976 | 12,645 | 25,62 |
| for previous 15 weeks of half- | 1,152,650 | 4,44,309 | 38,36,354 | 4,71,850 | 1,00,837 | 10,16,996 | 190,600 | 177,165 | 867.76 |
| Total for 16 weeks | 1,221,310 | 4,70,699 | 41,36,194 | 5,12,280 | *1,08,167 | 10,91,146 | 203,576 | 189,810 | 393,38 |
| Comparison. Audited figures. | | | | | | | | | |
| Foral for corresponding week of previous year, 449 miles open | 53,268 | 22,272 | 3,01,425 | 35,862 | 4,613 | 60,747 | 10,201 | 11,863 | 22,00 |
| er mile of corresponding week of previous year | 89:78 | 34'32 | 464'45 | 52.17 | 7'11 | 93'60 | | | ***** |
| otal to corresponding date of | 1,208,266 | 4,43,674 | 44,31,934 | 5,11,306 | 1,28,478 | 10,83,458 | 186,600 | 212,807 | 399,40 |

^{*} Steam-boat earnings for the week, Rs. 6,680. Ditto ditto to date, ,, 82,490.

FINANCIAL YEAR. Ditto

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

| RECEIPTS FOR WEEK ENDING 25TH OCTOBER 1889. | | | rs FOR WEER H OCTOBER 1 | | A | RECEIPTS FRO PRIL 1890 TO 25 OCTOBER 1890. | | 1 | L RECEIPTS PRO APRIL 1889 TO TH OCTOBER 188 | Total | Total | | |
|--|-----------|------------------------|----------------------------|----------|------------------------|--|-----------------|---|---|-----------------|---------------------------------------|-------------------------|-------------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per week. | Mean mileage worked, | Total receipts. | Per mile worked per week, | increase in 1890-91. | decrease in 1890-91. |
| | Rs. | Rs. | | Rs. | Ra. | | Rs. | Ra, | | R4, | Rs. | Rs. | Rs. |
| 69) | 74,150 | 107'81 | 649 | 60,747 | 93.60 | 672 | 24,14,826 | 120.93 | 649 | 23,99,111 | 123'81 | 15,715 | |

| | | | B. and NW. Section. | Earnings of Tirhoot Section. | | | | | | |
|----------------|------|--------------------------|-----------------------------|------------------------------|-----------------------------|--|--|--|--|--|
| | Wee | k ended 25-10-90. Rs. | Week ended 26-10-89. Rs. | Week ended 25-10-90. | Week ended 26-10-89, Rs. | | | | | |
| Coaching | ** | 18,220 | 10,474 | 13,170 | 11,798 | | | | | |
| Goods | 1466 | 12,620 | 13,835 | 27,810 | 20,027 | | | | | |
| Other earnings | *** | 4,180 | 1,580 | 8,150 | 8,033 | | | | | |
| Total | *** | 30,020 | 25,869 | 44,130 | 34,858 | | | | | |

| DARJEELING-HIMAI | AYAN I | RAIL | WAY COMP. | ANY, LI | MITED. | | R | 8. |
|--|------------|---------|------------|---------|--------|-------------------|--------------|------|
| Approximate earnings for week Corresponding period of 1889 | | th Oct | ober 1890 | | | | 13,6 11,8 | |
| Increase | | | | | | 102.10 | 2,5 | 292 |
| Receipts per mile for week end Corresponding period of 1889 | | Detober | 1890 | | | Rs. 267 223 | 14 0 | 9 0 |
| Increase | | | | | | 44 | 14 | 9 |
| Receipts from 1st July to 11th Corresponding period of 1889 | October 1 | 890 | | | | | 43.0 67,5 | |
| Decrease | | | | | | | 24,5 | 28 |
| | | | | | | | , All | |
| DARJEELING-HIMALA | YAN R | AILW | AY COMPA | NY, LIM | ITED. | | R | 5. |
| Approximate earnings for week Corresponding period of 1889 | ending 18 | 8th Oct | tober 1890 | Aug. | | | 14,4 | |
| Increase | | | or was | | | W. | 3,2 | |
| Receipts per mile for week end Corresponding period of 1889 | ing 18th C | October | 1890 | | one. | Rs. 282 219 | 9 | P. 9 |
| Increase | •• | | ••• | | | 62 | 15 | 10 |
| Receipts from 1st July to 18th Corresponding period of 1889 | October | 1890 | | - | | | 57,4 | |
| Decrease | 1467141 | | | | | - | 21,3 | |



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, NOVEMBER 19, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE DACCA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT-MISCELLANEOUS.

Darjeeling, the 11th November, 1890.

RESOLUTION.

READ-

The General Administration Report of the Dacca Division for the year 1889-90.

The report is submitted by Mr. Power, who held charge of the Division for only the two last days of the year, and is therefore chiefly based on the remarks made by the District Officers, one of whom, however, took charge in the last month of the year, while another took charge after its close. The Commissionership was held for nearly the first nine months of the year by

Mr. Worsley, and thereafter for three months by Mr. Clay.

2. The record of touring and inspection done by all officers, except the District Officer of Furreedpore, was exceptionally good. The Commissioner's tour extended to 104 days, the Collectors of Backergunge and Mymensingh were each out for 100 days, while the Collector of Dacca was out for 96 days. In Furreedpore changes of officers and sickness combined to reduce the touring done to 60 days. Of the 12 Subdivisional Officers, four performed tours of over 100 days, and those of the others were of sufficient duration. All the district offices and treasuries, and nine out of the twelve subdivisional offices and treasuries, were inspected by the Commissioner either during the year or immediately after its close. By the Collectors their own offices were inspected twice, seven of the subdivisional offices once, and five of the subdivisional offices twice.

3. The rainfall was plentiful, but in two districts, Dacca and Furreedpore, was so unevenly distributed as to reduce the outturn on the whole to less than eight annas or half an average crop. Backergunge throve on the misfortunes of its neighbours, and secured abnormally high prices for a full average crop. In Mymensingh also the crop, though not so good, is reported to have been quite an average one. In the two latter districts the condition of the people was naturally a very prosperous one, and it is said that the only classes which suffered were those with small fixed incomes. In Dacca and Furreedpore, however, some pressure is said to have been felt on account of the partial failure of the food crops. The health of the people was not good; fever and cholera were exceptionally prevalent, and on the whole it is said that the year was less healthy than any of the preceding quinquennial period.

4. Beyond the ordinary articles for domestic use made in every district, there is not much of importance manufactured in this Division. Such manufactures as there are, however, all showed an improvement over the previous year. The outturn of indigo in Goalundo increased from 83 to 101 maunds, of sugar in Furreedpore from 9,080 to 12,049 maunds, and the steam oil-mill established five years ago at Jhalokati in Backergunge produced 16,900 maunds of oil-an increase of 10 per cent. over the production of the previous year. The export trade in all articles except hides showed considerable expansion. The value of that from Naraingunge amounted to Rs. 1,14,89,150, against Rs. 1,01,61,683 in 1888-89. The trade of this place, it is said, has more than trebled since 1879-80, when Naraingunge was first declared to be a port, and has expanded by nearly 60 per cent. within the last five years. In Backergunge and Mymensingh, where the rice crops were good, the export was of course large; and in Dacca and Furreedpore jute has to a large extent supplanted rice, so that the latter is hardly exported at all from those districts. In Backergunge very little jute is grown, as the saline soil deteriorates the fibre: but in the three northern districts it is a peculiarly suitable crop, and is largely grown. This is due to the fact that the crop is an early one, and can therefore be exported by water before the khals have become impassable. There was a heavy crop of betel-nuts, and large quantities were exported to Calcutta and Burmah, while 'cocoanuts were as usual largely exported to Calcutta and to other districts.

The Commissioner remarks that trade is carried on chiefly by water in country boats and steamers, that there are hardly any carts, and that the amount of traffic carried on by the railway, though considerable in itself, is, comparatively speaking, small. Again, under the head of "Communications,"

he says-

"The improvement of water communication does not appear to have attracted much attention during the year. In low-lying districts like those of this division, road-making, involving as it does the construction of high embankments, is very expensive, and, as one Magistrate remarks, it would probably be very beneficial to the people if some portion of the money at the disposal of the Boards was expended in deepening or clearing the silt of the more important of the numerous khals and nullahs which intersect the division."

The question of roads versus khals is an extremely important one, and was discussed by Mr. Larminie (chiefly with reference to Backergunge) in his Annual Road Cess Report, published in page 1095 of the Calcutta Gazette for 9th June, 1886. Mr. Larminie was of opinion that at that time in the districts of Dacca, Mymensingh and Furreedpore roads were likely to prove of the greatest use to the public, but that in Backergunge money could more usefully

be expended in improving the natural water communications.

The police are said to have worked fairly well during the year. The number of cognizable and non-cognizable cases is not given; but from the Inspector-General's report it appears that there was an increase in both classes of crime. The number of cases in which police enquiry was refused was 453 against 685 in the previous year. The largest number of refusals occurred in Mymensingh, where the police are numerically weakest in view of the area and population, and the smallest number (28), as in the previous year, in Furreedpore. False cases again showed an increase (695 against 660), but the results of the prosecutions were somewhat better, convictions being obtained in 27.7 per cent. of the cases as against 22.9, the percentage of the previous year.

7. The Land Revenue collections were on the whole satisfactory. outstanding balance decreased from Rs. 3,39,124 to Rs. 2,95,014, and the per-

centage of total collections on total demand increased from 90.8 to 92.06, Furreedpore being the only district in which the percentage was below 90. There was a decrease in the outstanding balance on account of cesses in all districts except Furreedpore, but this was accompanied by an increase in the number of certificates filed from 9,819 to 10,821. There was a falling off in the Excise revenue, due mainly to the closing of outstills where the upset price was not paid, and to the abolition of the outstill system, which told heavily on the sales and reduced the advance collections paid in March. Under Stamps there was an increase of Rs. 58,031, the total revenue amounting to Rs. 6,20,538. The increase was general throughout the division. The Commissioner remarks :-

"This general increase is not traceable to any marked temporary cause, and may therefore be attributed to the growing artificiality of existence, i.e., to what is usually called

The income-tax worked much more smoothly. The demand increased from Rs. 2,55,800 to Rs. 2,72,008, while the outstanding balance at the close of the year decreased from Rs. 5,300 to Rs. 2,110, and the percentage of objections was reduced from 7.8 to 5.8. Although the tax may continue to be unpopular, the expressions of discontent have apparently somewhat diminished. The system of paying land revenue by postal and revenue money-orders continued to work well, and the amount remitted increased from Rs. 1,45,539 to

8. As in previous years, full statistics are given regarding the progress of education in the division, but no explanation is offered of their more striking features. Thus under secondary education an increase of only 2.4 per cent. in the number of pupils is accompanied by an increase of 7 per cent. in the expenditure; while under lower primary a decrease of 2·1 per cent. in the number of scholars is accompanied by an increase of 3·8 per cent. in the expenditure, and under female schools, although there has been a decrease of 5.5 per cent. in the expenditure, the decrease in the number of scholars amounts to no less than 23.1 per cent. As there was also a reduction in the expenditure from municipal and local funds, these facts point, until explained, to the supposition that the results must to some extent be due to a want of efficient administration on the part of the municipalities and District Boards concerned. On the other hand, it is satisfactory to note the large increase of 10,321 scholars under "Private institutions for indigenous instruction," and His Honour observes with much pleasure that there is an increase in the number of Mahomedan boys attending every class of school, an improvement which is, however, accompanied by a decrease of over 53 per cent. in the number of Mahomedan pupils attending girls' schools and female schools. Two new colleges have been established at Barisal, viz., the Brojo Mohon Institution and the Raj Chandra College. In the Commissioner's report they are stated to have had respectively 21 and 12 students on the 31st March 1890. In the Director of Public Instruction's report, the numbers given are 61 and 27, and the average daily attendance is returned as 44 and 21. The discrepancy is remarkable and should be explained.

9. In paragraph 244 the Commissioner says that the management of the pounds by the District Boards has not as yet resulted in any marked improvement, and that the Magistrate is of opinion that systematic inspection by some responsible officer of the Boards is much to be desired. This source of revenue is believed to be capable of considerable expansion, and such an inspection as that suggested, which ought to be easily arranged without additional expense, would probably effect something in this direction for by an examination of the counterfoils the inspecting officer could readily ascertain from what distance cattle are usually brought to the pounds, and consequently what room there is for the establishment of new pounds, and he could probably also form a shrewd guess whether the rent realized for the pound

was a fair one or not.

10. Regarding the zemindars, the Commissioner makes the following remarks:-

"Nawab Sir Abdul Ghuni, K.C.S.I., Nawab Ahsanullah, Khan Bahadoor, and Rajah Rajendra Narayan Roy Bahadoor, have maintained their reputation as loyal subjects, peaceful landlords, and public benefactors. Of the other zemindars of this district,

Babu Srinath Roy of Bhagyakul deserves prominent mention for his public spirit in contributing a munificent donation of Rs. 30,000 in memory of his mother for the building and foundation of an eye-ward to be attached to the Mitford Hospital at Dacca.

"The principal zemindars of this district are absentees. There was nothing in their conduct during the year deserving of special Furreedpore.

mention.

"The zemindars of this district, with the exception of Nawab Ahsanullah, have done nothing during the year to merit praise.' Backergunge. their conduct in stirring up disturbances for their own ends, deserve severe censure.

The Commissioner while noticing the absence this year of any special act of beneficence on the part of the Mymensingh zemindars reports that the Maharajah of Susung, Rajah Mymensingh. Surja Kantha Acharjya Bahadoor of Mooktagacha, Babu Jogendra Kishore Roy Choudhuri of Ramgopalpore, Babu Brojendra Kishore Roy Choudhuri of Gouripore, Srimati Jahnobi Choudhurani and Srimati Bindu Bashini Choudhurani of Kagmare, Hafez Mahomed Aly Khan of Karotia, Babu Radha Bollabh Choudhuri of Sherepore, and Mir Abdul Huq of Sabinnagar, have maintained their reputation as liberal, peaceful, and law-abiding landlords.

11. The Lieutenant-Governor has much pleasure in acknowledging the good services rendered by Mr. Savage at Backergunge, Mr. Hare at Dacca, and Mr. R. C. Dutt at Mymensingh, which have been brought to his notice by the Commissioner. The Personal Assistant, Babu Okhoy Coomar Sen, is also favourably mentioned. Mr. Worsley was in charge of the Division during the greater part of the year under report, and deserves His Honour's thanks for his careful and judicious administration. The present Officiating Commissioner, Mr. Power, has done well during his tenure of office.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN.

Secretary to the Govt. of Bengal.

LEPER ASYLUM COMMITTEE.

RESOLUTION.

MEDICAL

Dated the 12th November 1890.

READ again the undermentioned papers-

Laborary Stongston A cold?

Government Resolution, Medical, dated 29th July 1890.
 Government Resolution, Medical, dated 16th September 1890.

Mr. W. Banks Gwyther is appointed a member of the Committee formed to consider the question of providing Calcutta with a new, enlarged and improved Leper Asylum.

Order.-Ordered that a copy of the Resolution be forwarded to the Secretary to the Leper Asylum Committee for information, and to the Public Works Department of this Government for information and communication to Mr. W. Banks Gwyther.

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

. C. C. STEVENS, regularly such the growing and worker Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE COMMITTEE FOR THE MANAGEMENT OF THE CALCUTTA ZOOLOGICAL GARDENS FOR THE YEAR 1889-90.

REVENUE DEPARTMENT-MISCELLANEOUS (F).

Dated Darjeeling, the 13th November 1890.

RESOLUTION.

READ-

The Report of the Committee for the Management of the Calcutta Zoological Gardens for the year 1889-90.

The accounts appended to this report show that the financial position of the Gardens requires the serious attention of the Committee. The receipts from private sources amounted to Rs. 18,126, the Government contribution was Rs. 19,504, making a total income of Rs. 37,630, while the expenditure was Rs. 46,285, leaving a deficit of Rs. 8,655. Of this Rs. 6,523 were spent on original works of construction; but, even excluding that sum, the cost of ordinary administration exceeded the income. The balance was reduced from Rs. 11,279 to Rs. 2,624.

The Lieutenant-Governor notices with satisfaction that a very useful tropical aviary was constructed during the year, which bears the name of the Nawab Bahadur of Moorshedabad in recognition of his large subscription to the Gardens of Rs. 10,000.

The number of visitors who paid entrance fees was 109,569 against 111,573 in the previous year; but this number was exclusive of a large number of students and children under eight years of age who were admitted free of charge. The most important additions made in the course of the year were a pair of adult African lions, two African leopards, one African caracal, and one hunting leopard presented by His Excellency the Viceroy; a pair of young Indian lions presented by the Nawab of Junagarh, Katteywar, and two tigress cubs presented by Sir Steuart Bayley. One zebra was obtained by exchange from the Zoological Society's Gardens, London, and a pair of jaguars from Mr. Carl Hagenbeck of Hamburg. The birth of a pair of tiger cubs is mentioned as an unusual event during the year. Of the presentations made, there were 60 mammals, 34 birds, and 4 reptiles. The total number of presentations during the year was 98 as against 42 in the previous year, and is indicative of the interest taken by the public in the institution.

It is stated that the institution continued to maintain its popularity with the students and teachers of the various schools and colleges of Calcutta and its suburbs.

The thanks of the Lieutenant Governor are due to the members of the Committee for their efficient management of the Gardens during the year.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

No. 297Mne., dated Calcutta, the 15th November 1890.

THE following Report of the 14th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners of the Port of Calcutta, is published for general information.

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

From-Major A. D. McArthur, R.E., and W. Connan, Esq. To-The Secretary to the Government of Bengal, Public Works Department.

In accordance with the orders of the Government of Bengal, communicated with letter No. 178T .- M. of the 21st ultimo (received on the 4th instant), we have the honour to report that the 14th quarterly inspection of the Kidder-

pore Dock Works was made on the 8th instant.

The usual tabular statement and the index plan showing the work done during the quarter ending 30th September 1890, and the total amount of work executed from the commencement, which has been prepared by the Superintending Engineer of the Dock Works, are already with Government. The present state of the various works under construction is reported in the following paragraphs.

Sixty feet Lock .- As reported in the last quarter, the work was almost completed, with the exception of the riverside revetment. Of the estimated quantity of masonry, viz. 2,229,490 c. feet, 98.1 per cent. was executed up to the end of

the quarter, thus leaving only 1.9 per cent. remaining to be done.

Eighty feet Entrance.—With the exception of the riverside revetments, this work is completed; about 21 0 per cent. of excavation remains to be done.

Double Entrance to Dock No. 1-Is finished, including the swing-bridge

which is open to traffic.

Tidal Basin .- Quay walls completed, with the exception of coping, of which 35.4 per cent. still remains: 5.3 per cent. of the masonry also remains to be done.

Graving Dock .- About 5 per cent. of the masonry remains to be done.

The erection of the caissons has been commenced.

Government Graving Dock-Is almost finished, with the exception of 6.7 per cent. of the estimated quantity of masonry. The foundations of the engine and boiler houses, which serve both graving docks, have been got in, and the

centrifugal pumps are being erected as the work proceeds.

Dock No. 1.—The quay wall was completed with the exception of the coping which was in progress. We regret to record that in the beginning of October, or shortly after the expiry of the quarter ending September, to which period the progress herein stated bears reference, a considerable length of the walls of this Dock suddenly showed signs of failure. We understand that the matter has already been reported to Government, and that a more detailed report is in course of preparation, which will be submitted in due course. As far as we could note during our inspection, the following is the present condition of the damaged work, the same being roughly indicated on the diagram accompanying the progress report and submitted herewith.

Movement of the long straight length of the east wall of the Dock has taken place over 2,050 feet, commencing about 50 feet from the angle of the short berth at the north end and extending to the angle of the wall at the south end. The displacement at the extremities of this length is shown by slight cracks in the face of the masonry extending through the wall and by longitudinal cracks along the course of the tunnel arch; but it is not considered that the latter extend through the solid masonry. The wall has been thrust forward by the earth backing, and tilted so as to bring the face to a vertical position along the whole damaged length. The movement is very slight at the two extremities and attains a maximum at a distance of 1,650 to 1,700 feet from the south angle, where the displacement at the coping level is 7' 54' From this point of maximum displacement to the south angle, an almost perfect

straight line has been preserved, the remaining 400 feet at the north end being more or less bulged. The original batter of the wall was ½" to the foot or about 2' in the total height from the foundation, and this amount would represent the forward movement at the top edge of the coping due to tilting, the remainder of the movement, or a maximum of 5' $5\frac{1}{2}''$, being the bodily transfer of the whole wall to the front sliding over its bed. The earth backing has sunk an average of perhaps 6' for a distance of 75 to 120 feet from the front of the wall, filling completely the gap caused by the displacement of

the wall. The average height through which the wall has sunk is 15".

Shortly after the occurrence above mentioned, a serious movement and fracture of the wall at the south-west angle of the Dock took place. About 450 feet of the inclined portion of the wall was affected, and about 50 feet adjoining this at the end of the Dock. The greatest forward movement was at a point 120 feet from the angle of the side walls, being 12' 11½", or, allowing 2 feet for the tilting of the wall, a forward movement of the whole wall of nearly 11 feet. The masonry of this portion is much shaken, showing cracks both on the face extending through the wall and longitudinal cracks. No less than seven cracks appear on the face of the wall and extending through it, while one appears at the extremity of the detached length at the end of the Dock. The mass of masonry here appears to have received a severe wrench from the force exerted by the backing at the point of maximum displacement, but the movement of the wall itself is small.

It was reported to us that since the first movement of the walls no further displacement or settlement has taken place. The masonry of both the damaged

walls appears to us to be of thorough good quality.

Boat Canal.—Lift lock is finished, the main pumping-station is being roofed and the pump being erected; 19.5 per cent. of excavation and 17.0 per cent. of masonry still remain.

The Chetla lock walls are raised to within a few feet of coping level.

Subsidiary Works.—The hydraulic engine-house is completed. The four jetty heads to the entrance are about half done and the foundations of the cargo sheds were in progress. The latter along the length of the damaged portion of the Dock walls have sunk with the earth backing.

Expenditure.—The total expenditure up to the end of the quarter under review is reported to be Rs. 1,95,81,854, of which Rs. 1,70,48,464 represent outlay on works and Rs. 25,33,389 on account of land.

Sanitary.—During the quarter under review the health of the workpeople was generally good. The daily average number of coolies employed was 6,144, among whom there were four deaths, thus showing a death-rate of 7.82 per

mille per annum.

General remarks .- We are of opinion that fair progress was made with the work up to the end of the quarter, which would have been maintained up to the date of our inspection but for the partial failure of the Dock walls. The quality of the work, as far as we have been able to judge, is satisfactory.

Rainfall, Weather, and State and Prospects of the Crops.

 Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 15th November 1890.

| | N | A. C. | and date of sturn. | Rainfall at Sudder Station in inches. | Character of the weather and state and prospects |
|-----------------|---------|---|-----------------------|--|---|
| В | EN | AL. Wester | n Districts. | 0(1(0) | |
| | | 1 Burdwan | Nov. 15, '90 | Nii | Weather—calm, bright and cold. State and prospects of all crops good. The full outturn may be expected, and all agricultural operations are being carried on to the fullest extent. Common rice solling at 16 seers per rupes on an average. |
| | | 2 Bankoors | ., 15, '90 | Na | Cold weather has set in. Prospects of crops continue good. Sowing of mustard finished. Ploughing for wheat going on. Sugarcane prospering. Common rice selling at 20 seers per rupee at Sudder and 19) seers at Bissenpore. |
| | TAB. | 3 Birbhum | ,, 15, '90 | Nit | Weather—seasonable. Prospects of crops continue excellent. A bumper crop of rice is now almost assured. |
| | EDWAR I | 4 Midnapur | ,, 15, '90 | Nil | Cold weather has set in. Winter rice doing well. Rubbi crops are being sown. Rice somewhat cheaper except in Ghatal. Prices of common rice: Srs. |
| | | | and explain | | Sudder |
| | | Hooghly | ,, 15, '90 | Nil | Weather—cold, specially at night. Prospects of all crops good. Prices of common rice:— |
| | | Howrah | . 15, '90 | Nii | Sndder 13 or 14 per rupee. Strampore 13 per rupee. Jehanabad 162 Weather—seasonable. Winter paddy doing well. Price of common rice 14 to |
| | | | Districts. | NU | 144 seers per rupee. |
| | | Hedrings A | Nov. 18, '90 | Nil | Weather—seasonable. Prospects of amun crop favourable. Ploughing for winter crops still continues. Prices stationary. |
| DIVE. | 7 | Nuddes | ,, 15, '90 | Nil | Weather—seasonable. Prospects of crops fair. Sowing of winter crops going on. Price of rice stationary. |
| ESIDENCY DIVE. | 8 | Khoolna | ,, 15, '90 | Nil | Weather—seasonable. Prospects of amun crop favourable except in the flooded area. |
| PRI | 9 | Jessore | ,, 15, '90 | Nil V | Weather—seasonable. Prospects of crops good. Rubbi sowings in progress. Agricultural loans still being issued. |
| | 10 | Moorshedsbad | ,, 15, '90 | Nil V | Veather—seasonable, Haimanti rice in ear. Prospects favourable. Rubbi crops still being sown. Kalai doing well. |
| 1 | 11 | Dinagepur | - ,, 15, '90 | Nil V | Weather—seasonable. Prospects of crops good. Price of rice unchanged. Locusts are reported to have done some damage in Patnitola police-station. |
| | 12 | Rajahahye | ,, 15, '90 | Nil W | Veather—mornings and evenings cool; skies almost clear. Jute gathered. Preparation of lands for rubbi crops not yet finished. Tobacco being planted. Condition of winter paddy good. |
| DITT. | 13 | Rungpur | ,, 15, '90 | Nil F | ine bright cold weather with morning fogs and heavy dews. Mustard, pulses and wheat are being sown. Tobacco germinated and potatoes planted. Amus nice coming into ear. Prospects generally favourable. |
| RAJSHAHYB DIVR. | 14 | Bogra | ., 15, '90 | Nil W | Teather—seasonable. State and prospects of all crops good. Locusts passed from the west across the north-west part of the district (thana Panchbibi) on the 7th instant, and did some damage to the crops and trees. Common rice is selling at 17½ seers per rupee. |
| | 15 | Pubna | ,, 15, '90 | Nil W | eather—seasonable. Prospects of crops good. Prices slightly reduced. |
| | 16 | Darjeeling | ,, 15, '90 | 0.04 W | eather—seasonable. In the Terai tobacco and potatoes are being planted. Mustard and sugarcane are doing well. Winter rice is in ear. |
| 1 | 17 | Julpigoree | ,, 15, *90 | Nil W | eather—days somewhat hot, but nights cool. Prospects of standing crops favourable. Steeping and gathering of jute almost finished. No change in the price of rice. |

| BENG. | Furreedpus Backergunge | istricts. Nov. 15, '90 ,, 15, '90 | Nil Nil | Weather—seasonable. Prospects of amun rice good. Harvesting of kartiki (November) rice going on. Mung and maskalai being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 16 seers per rupee. Weather—seasonable. State of standing crops fair. Sowing of winter crops |
|----------------------|---|-----------------------------------|------------|--|
| (1 | Eastern D Bucca Furreedpur Backergunge | Nov. 15, '90 | | (November) rice going on. Mung and maskalai being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 16 seers per rupee. |
| | Backergunge | Nov. 15, '90 | | (November) rice going on. Mung and maskalai being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 16 seers per rupee. |
| Acca Divs. |) Backergunge | | Nil | Weather seasonable State of standing gross fein Source of winter |
| 20 | | ,, 15, '90 | | in progress. Common rice selling at from 13 to 17 seers per rupee. |
| ā 20 | Mymonsingh * | Street, 31090 hard | Nil | Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers a rupee. |
| 21 | We in the second | " 15, '90 | Nil | Weather—fine, but occasionally cloudy. Mornings and nights cool. Prospects and state of amun crop good. Harvesting of jute nearly finished. Rubbs sowings going on. Common rice sells at 123 seers per rupee. |
| ž (25 | Chittagong | ,, 18, '90 | Nii | Weather—seasonable. Amun crop maturing. Prospects favourable. Cultivation of vegetable crops going on. Prices steady. |
| CHITTAGONG DIVE | Noakholly | ,, 15, '90 | Nil | Weather—seasonable. Sowing of rubbi crops going on. Rajashail rice is being reaped. Prospects of amus good. Outturn of betelnuts reported to be 14 annas. |
| CHITTA | Tipperab | ,, 15, '90 | Nil | Weather—seasonable. Amus prospering. Mustard and other winter crops being sown. Prices stationary. |
| 21 | Chittagons Hill Tracts. | ,, 13, '90 | Nil | Weather—seasonable, with forgy mornings. Cotton being gathered. Harvesting of early plough-paddy commenced. Lands are being ploughed for mustard. Common rice is being sold at 11 seers 62 chittacks per rupee. |
| BEHAI | Hill Tippersh | | | Report not received. |
| 26 | Pulna | Nov. 15, '90 | Nil | Weather—cool. Paddy is fast approaching to maturity. Prospects good. Rubbi crops previously sown are growing well. Rubbi crops still being sown in lower lands as the water recedes. Prices of food-grains almost |
| 27 | Gys | ,, 15, '90 | Nil | stationary. Weather—cold and fair. Paddy harvest commenced. Sowings of rubbi almost finished. Prospects favourable. Prices falling. |
| . 28 | Shahabad | ,, 15, '90 | Nil | Weather—cool and clear. Prospects of all crops continue favourable. Poppy germinating well. |
| PATNA DIVN. | Durbhunga | ,, 15, '90 | Nil | Weather—bright, and cool at night. Rice crop in ear and approaching to maturity. Rubbi sowings rapidly progressing: those already sown are doing well. Tobacco and alua promising. Poppy sowings going on. Price of common rice varies from 14 to 17 seers per rupee. |
| 80 | Mozafferpur | ., 15, '90 | Nii | Weather—seasonable. All crops doing very well. Rubbi still being sown. Poppy sowings making good progress. |
| 31 | Sarun | ,, 15, '90 | Nil | Weather—seasonable. Prospects of <i>rubbi</i> and rice continue excellent. Poppy sowings in progress. Prices slightly falling. |
| 32 | Chumparus | ,, 15, '90 | Nil | Weather—seasonable. Paddy beginning to ripen. Rubbi and poppy sowings progressing; seeds already sown have germinated well. |
| 33 | Monghyr | ., 15, '90 | Nil | Weather—rather warm than usual at this season. Rubbi sowings nearly completed, and prospects good. |
| . 84 84 | Bhagulponé | ,, 15, '90 | Nil | Weather—seasonable. Cutting of rangi rice has begun. Sowings of linseed and wheat continue. Prospects of all crops good. |
| Видоплени Видопремя. | Purnesh | ., 15, '90 | Nil | Weather—fine and cool. Aghani rice promises well. Rubbi prospects also good. Price of common rice 20 seers a rupee. |
| 36 | Maldab | ,, 15, '90 | Nil | Weather—seasonable. Prospects of all standing crops continue favourable, except in thanas Kaliachak, Bamongola, Old Maldah, and Ratua, where winter rice, kalai, and mustard have been destroyed to some extent by locusts. Price of rice stationary. |
| 37 | Southal Pergus. | ,, 15, 90 | Nil | Weather—seasonable. All crops doing well. Harvesting of early rice in progress; outturn more than average. Rubbs promises well. |

| No. | District at retu | | Rainfall at Sudder Station in inches. | In the same of the |
|-------|----------------------|---------------|--|--|
| RISSA | ١. | | | |
| 88 | Cuttack | Nov. 15, '90 | 0.15 | Weather—dry and cool. Laghu sarad is being reaped in Banki and Jajpur and ripening in other places. Guru sarad is in ear. Prices of common rice: Srs. Ch. Sudder 18 6 Jajpur 17 1 Kendrapara 21 0 Banki 21 old rice { 28 now rice } |
| 39 | Pooree Khoorda | " 13, '90 | Nil 0:17 | Weather—fair and cold. State of standing crops good. Late sarad flourishing. Early sarad being harvested; expected outturn 14 annas. Price of rice 21 to 26 seers per rupee. |
| 0 TA | Balasore NAGPORE. | ,, 15, '90 | Nil | Weather—seasonable. Harvesting of early winter rice continues. Average extent of sowing of biri, mung, and mustard up to date is about 12 annas. |
| Sout | h-West Frontis | r Agency. | 7 | |
| 41 | Hazaribagh | Nov. 15, '90 | Nil | Weather—clear and cold. Harvesting of winter rice commenced. Prospects of rubbi crops continue good. Prices about stationary. |
| 42 | Lohardugga | ,, 15, '90 | Nil | Weather—seasonable. Harvesting of winter rice [continues. Rain wanted for rubbi. Prices steady. |
| 43 | Singbhoom | " 15, '90 | Nil | Weather—seasonable: bright and cool. Paddy crop being harvested with an outturn of 10 to 16 annas. Rubbi crops doing well everywhere. Prices stationary. |
| 44 | Manbhoom | ,, 15, '90 | Nil | Weather—seasonable. Reaping of upland paddy going on. Expected outturn full. Rice selling at from 17 to 22 seers per rupee. |

Published for general information.

CALCUTTA; REVENUE DEPT., The 18th November, 1890. P. NOLAN, Secy. to the Gost. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th November 1890.

| 0.10 | | | WIND. | | ETRY. | HYGROM | ų. | | ATURE. | CEMPER | | meter | jo s | | | |
|----------------|---------|-----------------|-----------------------|-----------|------------|------------------|----------------|----------|--------|----------|-------|---|-------------------------------------|-----------------|-------|--------|
| Wrather. | Rain. | Miles recorded. | Prevailing direction. | Humidity. | Dew point. | Vapour pressure. | Mean wet bulb. | Minimum. | Range. | Maximum, | Mean, | Mean pressure barometer at 32° Fahr. | Number of hours bright sunshine. | Maximum in sun. | Date. | Month. |
| | Inches. | | | % | 0 | Inches | 0 | 0 | 0 | 0 | 0 | Inches. | | 0 | | |
| Partially clou | Nil | 20 | NNW and calm | 84 | 70.6 | 0.750 | 72.4 | 70-4 | 12:3 | 82.7 | 75.9 | 29-985 | 6.6 | 140-8 | 9th | lov. |
| Clear, a. | ,, | 87 | NNW and calm | 76 | 63-8 | -593 | 67:1 | 64.3 | 16-3 | 80.6 | 72.6 | 964 | 9.7 | 136.3 | 10th | ,, |
| Clear, | | 28 | NNW and calm | 75 | 62.0 | -557 | 65-6 | 62.7 | 17.5 | 80.2 | 71-2 | -948 | 9.6 | 135.5 | 11th | |
| Chiefly cle | | 26 | Variable and calm | 75 | 62-5 | -567 | 65-9 | 62-4 | 18:1 | 80.5 | 74-4 | -934 | 9.0 | 135 7 | 12th | ,, |
| Clear, | " | 16 | WNW and calm | 74 | 61.8 | ·553 | 65:3 | 61·1 | 19 6 | 80 7 | 70-9 | 941 | 9.7 | 137-5 | 13tb | 1) |
| Clear, . | ,, | 32 | Variable and calm | 77 | 62.8 | :574 | 66-0 | 62.8 | 18-2 | 81 0 | 71-1 | -965 | 9-9 | 137.5 | 14th | " |
| Clear, | " | 20 | NNW and calm | 69 | 58-1 | .485 | 62.6 | 59.1 | 21.2 | 80.3 | 68-9 | -983 | 9.5 | 137.8 | 15th | 1) |

| | | | | | Inches. |
|---|--|--------------|--|-----------------|--|
| | The mean pressure of the seven days | | The Park of the | | 29.960 |
| | The average pressure of the corresponding period for | 24 vears. | SG.'s O | ffice | 29.957 |
| | The divinge product of the secretary | ,,,,,,, | Mark District | | Hours. |
| | m 4 | | Elmi Lagar | BUT HE STATE OF | Laboratory and the second |
| | The total number of hours of bright sunshine | ••• | ••• | No. 11 | 64.0 |
| | The maximum possible number of hours of sunshine | *** | | | 77.5 |
| 3 | The mean temperature of the seven days | | 400 | | 72.1 |
| | The average temperature of the corresponding period | for 94 vo | ara 8 -6 | | 76.0 |
| | The average temperature of the corresponding period | | A CONTRACTOR OF THE PARTY OF TH | | 23.6 |
| | The extreme variation of temperature | *** | TO THE STATE OF | | THE RESIDENCE OF THE PARTY OF T |
| | The maximum temperature | | *** | | 82.7 |
| | | | | | Miles, |
| | The highest velocity of the wind in one hour | | | | 6 |
| | | | | | lbs. |
| | The highest pressure of wind on one square foot | | | | ? |
| | The nightest pressure of wind on one square foot | | | *** | |
| | m | | | | °/ 76 |
| | The mean relative humidity | a seed to be | Epith and Survey | | 76 |
| | The average relative humidity of the corresponding I | period for | 24 years, | 801.8 | |
| | Office | | | | 73 |
| | | | ME SAME IN | 0.1 | Inches. |
| | The total fall of rain from 9th to 15th November 18 | 90 | | | Nil |
| | | | 'a Office | | 0.35 |
| | The average fall of the corresponding period for 24 ye | | s Omes | | |
| | The total fall from 1st January to 15th November 18 | | | 1 | 61.25 |
| | The average fall of the corresponding period for 24 ye | | | *** | 65.13 |

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the corrected. above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

A, dew.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 17th November 1890.

Meteorological Report of the Province of B

| | | | | 1 100 | | | | diari | | SERVATIO | | | | |
|--|----------------------------|-----------------------------------|-------------------------------|-------------------------|-----------------------|---------------|----------------------|--------------------|---------------------|--------------------|------------------------------|---|---|----------------|
| Balasore South-West Midnapore South 24-Pergunnaha Midnapore 24-Pergunnaha Howrah Howrah Hooghly Burdwan Bankoora Beerbhoom West Burdwan Moorshedabad Nuddes Jessore Khoolna Chittagong Chittagong Chittagong Hill Tracts Backergunge Noakholly Furreedpore Dacca Commillah Mymensingh Bogra Pubna Rajshahye | | AIR | PRESSU | RB. | WII | D. | | | 4.046 | TEMPERA | TURE. | 4.000 | | |
| DISTRICT. | Representative station. | Mean barometric height, 8 A.M. | Mean reduced to sea-level. | Variation from mean. | Prevailing direction. | Mean wind ve- | Highest during week. | Date. | Lowest during week. | Date. | Mean maximum temperature. | Mean minimum temperature of week. | Mean daily tem- perature of weak. | Variation from |
| Car X III | Pooree | 30.012 | 30.029 | _ | Northerly | 165 | 85*7 | 9, 10 Nov. | 65.6 | 12th Nov. | 84°7 82°2 | 71.5 70.1 | 78'1 | |
| Pooree | Gopalpore | 30.020 | 30.045 | +'067 | NNW | 151 | 83.8 | 10, 12, 14 Nov. | 62.2 | 2017 | 83*7 | 67.0 | 761 | |
| | False Point | 30.010 | 30.032 | +*024 | NW | 113 | 84'9 | 10th ,, | 63.8 | | 86.7 | 68.7 | 75.4 | + |
| Cuttack | Cuttack | 29.962 | 30.042 | +*039 | Calm | 25 | 87'9 | 8th " | 59.6 | 2012 | 83.7 | 65.3 | 74'5 | + |
| THE RESERVE OF THE PARTY OF THE | Balasore | 29*989 | 30.020 | + '034 | Calm | 80 | 85.4 | 9 & 10 ,. | | | 1 | | 1 | + |
| South-West Midnapore South 24-Pergunnaha | Saugor Island | 30.008 | 80.032 | +.030 | North- Westerly | 158 | 83.7 | 8th " | 62.0 | 12th ,, | 81.7 | 68.4 | 75:1 | + |
| | Midnspore | 29.881 | 80.038 | +*014 | N | 122 | 86.3 | 10th ,, | 59.2 | 12th ,, | 85.2 | 63.2 | 74'4 | 4 |
| 24-Pergunnaha Howrah | Calcutta | 30.015 | 30.034 | +1025 | Calm | 21 | 82.9 | 10th ,, | 61.3 | 13th ,. | 80.8 | 64-6 | 72'8 | |
| | Burdwan | 29*947 | 30.020 | +.033 | North- | 25 | 85'3 | 9th . ,, | 62'4 | 11, 13, 14 | 83.0 | 64.9 | 74.0 | |
| | Bankoora | 29.712 | 30.028 | +.019 | Westerly | 47 | 851 | 9th | 58'8 | 11, 12, 14 Nov. | 83'8 | 62.3 | 73'1 | - |
| THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. | Raneegunge | 29.725 | 30.072 | +.051 | NW | 38 | 82.9 | 10th | 57.5 | 11th ,, | 82.1 | 61'4 | 71.7 | 33 |
| West Burdwan | | . 1 | | | | 2 00 10 | Town to the | 1000 | 62-7 | | 81'4 | 65.0 | 73.2 | 7.5 |
| Moorshedabad | | 29.961 | 30.030 | + 012 | WsW | 24 | 82*1 | 9, 13, 14 Nov. | 62.4 | 1.4+h | 83.4 | 62.4 | 731 | 150 |
| Nuddea | Krishnaghur | 29.979 | 30.059 | + '027 | WNW | 55 | 84'8 | 10th | | | | 1111 | 1533 | 010 4 |
| | Jessore | 20.896 | 30.031 | +1028 | Calm | 14 | 84'7 | 9 & 10 ,, | 64.2 | 11th | 83.6 | 67.0 | 75-3 | - |
| | Chittagong . | 29.935 | 30'028 | +'036 | NW | 41 | 82.7 | 8, 10 " | 61.9 | 13th ,, | 81.8 | 67.3 | 74.6 | |
| BEET COLUMN TO COLUMN TO THE PERSON TO THE P | Demagiri | 114 | 7 | | | I E | Observ | rations not re | peived. | 10.41 | | 816 | 250 | 38 |
| | Barrisal | 30,002 | 30.018 | + '045 | Calm | 27 | 87'3 | 10th Nov. | 65'0 | 11th ,, | 82.6 | 66.3 | 74.5 | 32 |
| Noakholly | Noakholly | 29*990 | 30'035 | +.058 | Calm | 45 | 82.3 | 1stb " | 61.0 | 12th ., | 81.8 | 62'3 | 72.1 | 100 |
| Farreedpore | Furreedpore | 291994 | 80.032 | +*046 | Calm | 23 | 81.2 | 10th ., | 64.0 | 10th | 81.1 | 66.3 | 78.7 | |
| Dacca | Dacca | 29 985 | 30.008 | + '017 | Variable | 54 | 83'1 | 10, 13, 14 Nov. | 64'3 | 9 & 10 ,, | 82.2 | 65'5 | 74'0 | - |
| Commillah | Commillah | 29*986 | 30.053 | + '041 | Calm | 10 | 82.9 | 10th ,, | 60.0 | 8, 10, 12 Nov. | 81.8 | 61.7 | 71.8 | Air |
| Mymensingh | Mymensingh | 29.958 | 30.018 | +*027 | Calm | 28 | 82'2 | 12th ,, | 61.8 | 10th ,, | 81.1 | 64'4 | 72.7 | |
| Bogra | Bogra . | 59.936 | 30.001 | + '046 | Calm | 28 | 81.8 | 13th ., | 60.4 | 9th ,, | 80.6 | 62.7 | 71.7 | 1 |
| Pubna | Serajgunge | 29.971 | 30.018 | +.018 | N | 15 | 82'4 | 9th ,, | 60.7 | 9th ,, | 81'4 | 63.2 | 72.3 | 4 |
| Rajshahye | Rampore Beau- leah. | CHINE | 30.022 | + '030 | N | 23 | 81.3 | 12th | 62.7 | 10th ,, | 80.7 | 64.4 | 72.6 | |
| Maldah | Maldah | 29.953 | 30.037 | , | NW | 72 | 83.6 | 14th | 60.8 | 10th ,, | 82.2 | 62'6 | 72.4 | |
| Dinagepore | Dinagepore" | 29.900 | 30.050 | +*014 | W | 1 | 83'1 | 13th ,, | 60.7 | 14th ,, | 81.9 | 61.8 | 71.9 | |
| Rungpore | Rungpore | 29.901 | 30.030 | +.021 | NE | | 83.8 | 13th | 61'2 | 8, 9 ,, | 82'1 | 62.3 | 72.2 | 10.4 |
| Julpigoree Cooch Behar | Julpigoree | 29*732 | 30,031 | + '025 | . 1 | 9 | 82.9 | 12, 13 ,, | 60.3 | 8th | 81.2 | 61.7 | 71.6 | |
| Darjeeling Hill Tracts | Darjeeling | 23.039 | - | 012 | Variable | 74 | 57.2 | 12th ,, | 42.2 | 9th ,, | 54'0 | 43.2 | 48'8 | 1 |
| Purneah | Purneab | 29.901 | 30.033 | +*021 | Variable | 37 | 81.7 | 14th ,, | 57.5 | 8th | 80 2 | 59.7 | 70'0 | |
| North Bhagulpore | Mozufferpore | 29*840 | 30.030 | | | to Ball | 81.9 | 1 | 62.3 | | 80'3 | 68.7 | 72.0 | |
| Mozufferpore Durbhunga | Durbhunga | 29'864 | 30.038 | +:006 | Calm WsW | 36 | 85.0 | nout. | 59.2 | 9th ,, | 81.5 | 60.6 | 70:0 | 200 |
| Chumparun | Matthews | 29.810 | 30.047 | + '037 | wsw | 79 | 83.5 | 13th | 65.9 | 14th | 81*3 | 57:3 | 69:4 | |
| Sarun | Channe | 29'830 | 30.035 | +'023 | Calm | 23 | 8213 | 13, 14 | 69.4 | 1716 | 81.2 | 62'8 | 71'8 | |
| BANKS IN | Dehree | 29.681 | 30'054 | +.016 | ISW | 62 | 84'8 | 14th | 64.5 | 1045 | 82.2 | 57.4 | 70.0 | 8 |
| Shahabad | Buxar | 9 29.831 | 9 30 085 | P +*018 | wsw | 62 | 83'4 84'3 | 14th | 56.4 | 11 19 18 | 82'1 | 57'9 | 70'0 | 1 |
| Ove. | Arrah | 29.666 | 30'064 | + '027 | W | 6 | 84.4 | | 56'8 | 11 & 14 ,, | 82.2 | 58.1 | 70'8 | |
| Gys | Bankipore | 29.857 | 80'050 | + '009 | S | 116 | 11 11 10 10 10 | 10.1 | Trough. | 12, 14 ,, | 82.0 | 59.0 | 71:0 | |
| Patna | | HALCON | THE SE | | W | 39 | 81.0 | NEW YORK | 8.99 | 14th | 81.3 | 59.1 | 70.3 | |
| Monghyr | Bhagulpore | 39.856 | 30.036 | +-*005 | Calm | 3 | 80.8 | 8, 14 ,, | 57'5 | 11th | 8014 | 58-9 | 69.7 | |
| Southal Pergunnah | Doomks | 29'526 | 80-047 | +1026 | NW | 28 | 81.6 | 9th ,, | 56.6 | 11 & 12 ,, | 81'0 | 59.1 | 70'1 | |
| Hazaribagh | Hazaribagh | 27.987 | 30 070 | + .002 | Westerly | 145 | 78'9 | 14th ., | 53'8 | 12th " | 77:0 | 67.1 | 67.1 | |
| Lobardugga Manbhoom | Ranches | 271865 | 80.020 | +*015 | Calm | 100 | 79'3 | 10th ,, | 51.2 | 12th ,, | 77:9 | 56-8 | 67:1 | - |
| Singbhoom | Chyebassa | 29*267 | 30-056 | +1043 | w | 18 | 88'8 | 12th ., | 55'8 | 12th | 85.2 | 61.9 | 73'5 | 100 |

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same paried for the The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 6 and an overcast sky by 10. The number is means or average of the reinfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the returns in the district sending in returns divided by the number of stations. A rainy day is one on which at least numbered to 4 in period in question during the

of the week ending Friday, the 14th of November 1890.

| | | | | | ons. | SERVATIO | RICT OF | DIST | | | | | | | |
|------|-----------------------------|-------------------------|-------------------------|-------------------------------|------------|-----------------|-----------------------|---------------|-----------------|-----------------------|-----------------|-----------------------|---------------------------------------|---------------------|------|
| | | | | 344 | | NPALL. | RAI | | | | | | 18 | tan. | 1 |
| 1 | District. | Representative station, | number days. | number days. | 1890. | ce 15th May | Sin | nth. | ce 1st of mo | Sin | WREE. | OFV | week | d amount r week. | 100 |
| | | | Normal nu of rainy d | Average number of rainy days. | Variation. | Normal mean, | Mean for district. | Variation. | Normal mean, | Wean for district. | Normal mean, | Hean for district, | Rainfall of week observing station | at 8 A.M. for | |
| | Pooree | Pooree} | 0'3 | 0.2 | +11:87 | 53.80 | 65:77 | +0.52 | 1'67 | 1.83 | 0.53 | 0.09 | Nil 1'90 | 3.1 | |
| | Outtack | False Point) | 0.2 | 0.6 | +13:25 | 50'89 | 63'64 | +1*38 | 0.20 | 1.97 | 0100 | | Nil | 2'0 | |
| | Balasore | Salasore | 0.2 | 0.5 | +8'87 | 52'39 | 61.56 | +0.22 | 0.82 | 0.87 | 0.08 | 0.01 | Nil | 2.9 | |
| nare | South West Widow | | 0.1 | 0.0 | +4.78 | 61:58 | 66:29 | +0.08 | 0.26 | 0.81 | | 1.00 | Nil | 0 | |
| its: | South 24-Pergunnal | As a man of | 0.1 | | | 50.78 | | | Const 1 | | 0.07 | Nil | Nil | 3.1 | 8 |
| | 14-Pergunnahe | Midnapore | 0.2 | 0.0 | -0.48 | 50 75 | 50.00 | -0.17 | 0-17 | Nil | 0.01 | Nil | Nil | 11 | |
| | Hooghly | Calcutta { | 0.1 | 0.0 | +4'33 | 50.83 | 55'16 | -0.50 | 0.27 | 0.07 | 0.03 | Nil | Nil | 11 | |
| | Burdwan | Burdwan | 0.1 | 0.0 | +15.59 | 46.15 | 61.41 | -0.02 | 0.30 | 0.52 | 0.01 | Nil | Nil | 21 | |
| ••• | Bankoora | Bankoora | 0.1 | 0.0 | +0.59 | 51.74 | 58.02 | -0.58 | 0.27 | 0.01 | 0.04 | Nil | Nil | 2'4 | |
| *** | West Burdwan | Raneegunge { | 0.1 | 0.0 | +12'34 | 51.29 | 63.93 | +0.11 | 0.14 | 0.32 | 0.02 | Nil | Nil | 1.3 | |
| | Moorshedabad | Berhampore | 0.1 | 0.0 | +10.67 | 49.83 | 60*55 | +0.11 | 0.22 | 0.33 | 0.08 | NII | Nil | 0'4 | |
| * | Nuddes | Krishnaghur | 0.1 | 0.0 | +6.43 | 48'60 | 55.03 | -0.56 | 0.30 | 0.04 | 0.04 | NII | Nil | 1.7 | |
| | Khoolna | Jessore { | 0.1 | 0.0 | +1.01 | 23.23 | 58:53 | -0.24 | 0.30 | 0.06 | 0.03 | Nil | Nil | 1'4 | |
| *** | Chittagong | Chittagong | 0.3 | 0.0 | +7'17 | 111.89 | 119.08 | -0.15 | 1.49 | 1.87 | 0.51 | Nil | Nil | 0.3 | |
| acti | Jhittagong Hill Tre | Demagiri | 0.3 | 0.0 | -5.96 | 79:28 | 73'32 | -1.09 | 1.21 | 0.42 | 0.19 | Nil | | | |
| 4 | Backergunge | Barrisal | 0.1 | 0.0 | -7:31 | 75'47 | 68.16 | -1.12 | 1.13 | Nil | 0.07 | Nil | Nil | 0 | |
| | Noakholly | Noakholly | 0:1 | 0.0 | -7.23 | 105.11 | 97.88 | -1'95 | 1.95 | Nil | 0.42 | Nil | * Nil | 0 | 2 |
| ••• | Furreedpore | Farreedpore | 0.1 | 0.0 | -9:32 | 59'57 | 58:19 | -0.40 | 0.40 | Nil | 0.03 | Nil | Nil | 0.6 | |
| *** | Pinners b | Ommillah | 0.1 | 0.0 | -7'40 | 67:51 | 60.11 | -0.26 | 0.20 | Nil | 0.00 | Nil | Nit | 3.0 | |
| *** | Mymensingh | Memoralneh | 0.1 | 0.0 | +7.51 | 68:31 | 75.85 | -0.04 | 0.51 | 0.17 | 0.03 | Nil | Nil Nil | 9.7 | |
| | Bogra | Bogra | 0.2 | 0.0 | +22.12 | 56.87 | 78:99 | +0*10 | 0.31 | 0.41 | 0.16 | Nil | Nil | 0.7 | |
| *** | Pubna | Serajgunge . | 0.1 | 0.0 | +2.17 | 52.78 | 54.95 | +0.32 | 0.25 | 0.57 | 0.03 | Nil | Nil | 0.7 | |
| | Rajshahye | Rampore Beauleah | 0.1 | 0.0 | +23.10 | 52'76 | 75:86 | +0.79 | 0.14 | 0:93 | 0.08 | Nil | Mil | 0.3 | |
| | Muidab | Maldah | 0.1 | 0.0 | +8.26 | 53.28 | 62'14 | -0.16 | 0.18 | 0102 | 0.07 | Nil | Nil | 0 | |
| | Diuagepore | Dinagepore | 0.1 | 0.0 | +25.23 | 56.21 | 106-61 | -0.06 | 0.00 | Nil | 0 03 | Nil | Nil | 0 | |
| *** | Rungpore | Rungpore | 0.1 | 0.0 | +33'44 | 73.17 | | -0.08 | 0.08 | Nil | 0.08 | Nil | Nil | 0 | |
| *** | Goodh Behar | Julpigoree { | 0.1 | 0.0 | +44'96 | 109*55 | 154.21 | -0.03 | 0.03 | Nil | 0.03 | Nil | Nil | 0 | |
| BULS | Darjeeling Hill Tri | Darjeeling | 0.5 | 0.2 | +45'89 | 119-71 | 165.60 | -0.13 | 0.14 | 0.05 | 0.10 | 0.02 | 0.04 | 4'3 | |
| | Purneah North Bhagulpore | Purneah { | 0.1 | 0.0 | +22.65 | 58.03 | 80.67 | -0.03 | 0.03 | Nil | 0.05 | Nil | Nil | 0 | |
| ••• | Mozufferpore | Mozufferpore | 0.1 | 0.0 | +9.86 | 42'71 | 52.57 | -0.04 | 0'04 | Nil | 0.01 | Nil | Nil | 0 | |
| *** | Durbhunga | Durbhunga | 0.1 | 0.0 | +13.71 | 43.92 | 57.63 | -0.02 | 0.03 | Nil | 0.01 | Nil | Nil | 0 | 4 |
| *** | Chumparun | Motihari | 0.0 | 0.0 | +32.28 | 45'89 | 58:47 | Nil | Nil | Nii | Nil | Nit | Nil | 0.0 | |
| *** | Sarun | Chuprs | 0.1 | 0.0 | +11'89 | 41.71 | 53.60 | -0.04 | 0.04 | Nil | 0.01 | NII | Nil | 0.8 | |
| *** | Shahabad | Dehree} | 0.1 | A10 | +10170 | 39.16 | 49 59 | -0.10 | 0:10 | Nil | Cupt | 200 | Nil | 111 | 1 |
| | | Buxar Arrah | | 0.0 | +10.43 | | 20 00 | 0.10 | 0.20 | XII | 0.01 | Nil | Nil Nil | 1.0 | 5000 |
| *** | Gya | Gya | 6.0 | 0.0 | +16-23 | 40'71 | 56:93 | -0.14 | 0.14 | Nil | Nil | NII | Nil | 0.7 | |
| *** | Patna | Bankipore | 0.0 | 0.0 | +7.59 | 40'51 | 48'10 | -0.10 | 0.10 | Nil | Nil | Nil | Nil | 0.0 | |
| | South Shagulpore Monghyr | Bhaguipore { | 01 | 0.0 | +9.79 | 42.46 | 52'25 | -0.15 | 0.13 | Nil | 0.00 | Nil | Nil | 0 | 1 |
| a | Sonthal Pergunnahe | Boomks | 0.1 | 0.0 | +13'42 | 50'28 | 63.65 | +0.52 | 0.13 | 0.38 | 0'08 | Nil | Nil | • | |
| *** | | Hazaribagh | 0.1 | 0.0 | +0.41 | 49.04 | 49'45 | 0-0-10 | 0.50 | 0.01 | 0.07 | Nil | 10.05 | 21 | |
| | | } Ranchi { | 0.1 | 0.0 | -0.16 | 47.17 | 47'01 41'53 | +0.02 | 0.12 | Nil 0'10 | 0.03 | Nil Nil | Nil | 2'1 | 1 |
| 20 | Singbhoom | Onyebassa | 0.1 | 0-0 | -16'53 | 50.47 | 33.91 | -0.23 | 0.53 | Nil | 0.04 | Nil | Nil | 13 | 1 |

ton years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the new District observations of rainfall the normal means to the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890.

| | Visit Plant | | 100 | 507.5 | R | INFALL | | | | To | TAL | | | | ENTR |
|--|----------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|----------------------------|------------------------------|-----------------------------|---------------------------|--------------------------|-------------------|------------------------------------|---|--|---|
| division. | District. | Station. | Saturday, 8th November. | Sunday, 9th November. | Monday, 10th November. | Tuesday, 11th November. | Wednesday, 12th November. | fhursday, 13th November. | Friday, 14th November. | Number of rainy days. | fall of | Total rainfall since 1st of month. | Average total rain- fall from 1st of month, | Total rain- fail since 15th May 1890. | Average rainfel from 15t May to date, |
| | | | Satur | Sund | Mond | Tues | Wedr 12th S | rhur No | Frida | Num | Rainfall week. | 1.75 | | | |
| 91854 | Pooree | Pooree | | 40.00 | | | | ***** | | Nil | Nil | 2 28 | 1.20 | 69:97 | 49.4 |
| | | Khurdah Banpur | | | 0.17 | 0.50 | | | ***** | 1 Nil | 0.17 | 0°23 1°10 3°69 | 1.17 1.61 1.88 | 65°16 61°85 66°10 | 65°9° 47°7° |
| | | Gor | ****** | | | ***** | | | ****** | Nil | Nil Nil | 2.92 | 9 | 65'96 45'07 | 62-8 |
| | | Satpara Pipli | ****** | ****** | | ****** | | | ****** | Nil | Nil | 0.58 | P | 75'90 | i |
| | Onttack | Jagatsingpore Banki | | | 0'17 | ***** | | ***** | | Nil 1 | Nil 0.17 | 1:80 6:25 | 0.63 | 63°67 66°09 | 45'78 |
| | | Outtack Kendrapara | ***** | 0.12 | | | | | **** | Nil | Nil Nil | 1.84 0.20 | 0°78 0°60 | 82'14 53'15 | 50.83 |
| | NOT THE PARTY OF | Jajpore Dharmsala | | ***** | 0.53 | ****** | ***** | | ***** | Nii | Nil Nil | 0.46 0.10 | 0.35 | 53'15 51'18 | 6178 |
| | | Salipore | | | 0.25 | | ****** | | | Nil | Nil 0.25 | 0.41 | 1'10 | 52.12 | |
| | Balasore | Chandbali Bhuddrack | ****** | | ***** | | | | | Nil Nil | Nil Nil | 0.68 | 0.28 0.28 | 57'85 60'84 | 50°71 |
| | | Balasore Jellasore | | | | | ****** | | ***** | Nii Nil | Nil Nil | 2·25 1·21 | 0.71 6.52 | 65°83 | \$6.85 \$0.85 |
| | Was and a st | Baripodah | ***** | | ***** | | | | ****** | Nil | Nil | 0.91 | 0.48 | 62'91 | 52'9 |
| BOUTH-WEST BANGAL | Midnapore | Contai Sangor Island | | | ****** | | | ***** | ****** | Nil | Nil Nil | 0°45 1°44 | 0.60 | 67.78 69.05 | 66.53 |
| | | Tumlook Midnapore | | | | | | | ****** | Nil Nil | Nil Nil | Nil Nil | 0°27 0°20 | 67°90 47°47 | 50°63 47°92 |
| | | Ghattal Kukrahaty | | 0.00 | ***** | | | ****** | ****** | Nii Nii Nii | Nil Nil Nil | Nil Nil Nil | 0.48 | 44'61 50'20 46'23 | 53'6# ? |
| | 41.10 | Garbetta Diamond Har- | | | | 1 | | **** | | | 2,11 | All | 1 | 39.23 | |
| | 24-Pergunnal s | bour | | | | | ****** | | | Nil Nil | Nil Nil | 0.04 Nil | 0:30 | 62°13 66°69 | 57:44 |
| | Pire ii | Alipore Jail Barrackpore | ***** | | | ****** | ****** | | ****** | Nil Nil | Nil | 0.02 Nil | 0°27 0°44 | 61:96 50:91 | 54°53 48°53 |
| | | Dum-Dum Baraset | | | ****** | | ****** | | | Nil Nil | Nil Nil | 0°59 Nil | 0.18 | 56'34 | 50°78 48°98 |
| | | Buseerhat | ****** | ****** | ***** | ****** | | | | Nil | Nil | Nil | 6.30 | 58'67 | 21.01 |
| | Howrah | Howrah Wohesteka (Ooloberian) | | | | | 111.61 | ***** | *** ** | Nil | Nil | Nii Nii | 0°27 0°32 | 51'34 | 50.03 |
| | Hooghly | decampore | | | **** | | | | | Nil Nil | Nil Nil | 0-98 Nil | 0.17 | 54'89 52'05 | 49°38 47°36 |
| | | Jehanabad | ***** | | ****** | ***** | | | | Nil | Nil | Nil | 0.10 | 51.57 | 54.44 |
| | Surdwan | Culna Surdwan | | | | ***** | | ****** | | Nil | Nil | 0:20 0:56 | 0°34 0°28 | 54°31 65°53 | 43'60 |
| | The second | Cutwa Raneegunge | | | ***** | | *** ** | 77 | | Nil | Nil | 0.10 | 0.73 0.13 | 64:36 60:54 | 47'19 48'60 |
| | | Mankur | | | | | ******* | ****** | | Nil | Nil | 0'41 | 1 | 48'21 | * |
| | Bankoora | Bankoora Bishenpore | ***** | | ****** | | ****** | | | Nil Nil | NII NII NII | Nil Nil | 0°17 0°08 | 57.76 50.95 | 50'85 |
| | | Maliara Khatra | | | 10111 | ****** | ***** | ****** | | Nil | Nil Nil | 0.02 Nil | 0.22 | 59°28 40°06 59°97 | 48'11 55'08 |
| | Part Car | Kotalpore | | ***** | ***** | | | ***** | 11111 | Nil | Nil Nil | Nil Nil Nil | 9 | 66.94 | |
| | TO LO OIL | Gangajalghati Raipore | | | | | *** | ****** | | Nil Nil | Nil | Nil Nil | 9 | 63:75 53:29 | |
| | No. | vonamukhi | | | 111111 | | ····· | | | Nil | Nil | Nit | 7 | 52'74 | , |
| | Heerbhoom | Bh. Soory Hetainpore | ***** | | | | ****** | | ***** | NII | Nil | 0°83 0°76 | 0 11 0 13 | 62°28 60°31 | 53°16 |
| Charles and | | Rampore Han- | | ***** | | | ***** | | | NII NII | Nil Nil Nil | 119 | 0.16 | 72 56 57 42 | 50:74 P |
| A STATE OF THE STA | Nuddea | Murarai | 17 | 7 | 141,447 | | ***** | | | Nil | | Nil | 1 | 56'46 | 46'29 |
| | Nudden | Kishnaghur Choosdangs | | ***** | | | | | | Nil Nil | Nil Nil Nil | Nil 0°20 Nil | 0.38 | 55'46 61'66 47'08 | 45'34 50 52 |
| | historie el | Meherpore Kooshtea | | | ***** | | | | ***** | Nil Nil | Nii Nii | Nii Nii | 0'43 0'13 | 58*86 52*09 | 46'99 58'80 |
| | Khoolna | Satkhira . | | | | | 1600 | \ | | Nil | Nil | 0.48 | 0.33 | 57'61 | 55 07 |
| | | Khooina Nakipur | | ***** | | | ***** | | | Nil Nil Nil | Nil | Nil Nil | 0'46 0'36 | 62'51 52'83 | 60°36 |
| | | Rampal | | | ****** | U.T. | | | ****** | Nii | Nii | 0.88 Nil | P | 76'02 65'78 | |
| | Jessore | Naraii Jessore | | | | | 111.00 | | ****** | Nil Nil | Nil Nil | Nil a | 0.37 | 51'45 | 45 17 53'48 |
| | 14 | Jhenidah Magoorah | | | | | | ***** | | Nil Nil | Nil Nil | Nil Nil | 0.54 0.53 | 50'49 54'16 41'44 | 5278 48 64 |
| C Daylor | March 4.1 | Bongong | | | ***** | | | | ***** | NII | Nil | Nil | 0.78 | 46 03 | 50.87 |
| | Moorshedabad | Berhampore | 100 | | ***** | ***** | | ****** | ***** | Nil Nil Nil | Nii | 0.80 0.02 | 0°83 0°24 | 64 89 59 27 | 49.45 50.55 |
| | | Azimgunge Jungipore | | | ***** | | | *** ** | | Nil Nil | Nil Nil | Nil Nil | 0.31 | 63 67 58 27 | 40°4 50 4 48°4 |
| To a street | and the second | Lalgoia | | | | ***** | | | | Nil | Nil | 0.92 | 0.50 0.50 | 51.83 65.35 | 60'6 |
| . / A | Mary Dente | Akhrigunj Patkabari | | | ***** | ***** | | | ****** | Nil | Nil Nil | Nii Nii | | 61.00 | |
| | 232 | | | | | 80100 | dia. | | | | 4900 | | | | |
| SABT BENGAT | Chittagong | Cor's Bazar Chittagong | ****** | | | , | | | ***** | Nil | Nil | 1:37 | 1.08 | 129:49 | 131.85 |
| | | Kutubdia Satkanya | | ***** | ****** | 14.34 | ***** | ***** | ***** | Nil Nil Nil | NII NII NII | 1'37 2'25 0'15 | | 113'85 81'41 | |
| | Chittegong Hill Treeste | Rangmati | | | | ****** | ***** | ****** | | Nil | Nil | 0.03 | 1.21 | 68.03 | 82°0 76 4 |
| | Hill Tracts. | Ruma | - | 200 | | 71.17 | | ***** | ****** | Nii | Nil | 0.80 | 1'49 | 77:71 | Barna |
| | Datakorkunge | Perozepore Burrisal | | | ****** | | ***** | ***** | | Nil Nil | NII NII | Nil Nil | 1 38 | 79'01 62'91 65'76 | 68 28 |
| | | Buois | ****** | | ***** | ****** | ***** | ****** | | Nil Nil | NII | Nil Nil | 1.00 | 64'99 | 80.48 |
| | Barrey Mar. Talla | Heb Lines | To the | Distance. | MSCISH | Marie S | 1000 | | DE FAN | 1350 | TO LESS. | | THE REAL PROPERTY. | | |

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890 —could.

| | 16 | | E NO. | , | R | AINFAL | L. | | | To | TAL | | | | |
|------------------|---------------------------|--|----------------------------|--------------------------|-----------------------------------|-----------------------------|------------------------------|-----------------------------|---------------------------|---|---|--|---|--|---|
| pivisiou. | District. | Station. | Saturday, 8th November, | Sunday, 9th November, | Monday, 10th November, | Tuesday, 11th November, | Wednesday, 12th November. | Thursday, 13th November. | Friday, 14th November, | Number of rainy days. | Rainfall of week. | Total rain- fall since 1st of month. | Average total rain- fall from 1st of month. | Total rain- fall since 15th May 1890. | Average rainfall from 15ti May to date, |
| ST BENGAL | | Gournaddi Bauphal | | | | | | === | | Nil Nil | Nil Nil | Nil Nil | ? | 42.66 73.26 | P |
| | Noakholly | Nonkholly Fenny Harishpore Ramganj | | | ****** | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil 0'90 Nil | 1*52 2*37 P P | 92°34 163°40 169°51 65°28 | 106:2/ 103:86 |
| | Furreedpore | Madaripore Furreedpore Goalundo | | | | | | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0.58 0.58 0.58 | 41.01 49.45 44.00 | 54-95 57-11 58-35 |
| | Dacoa | Munshigunge Daces Naraingunge Manickgunge Joydebpore | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 0°61 0°44 0°58 0°35 P | 57'74 54'58 60'71 59'71 66'26 | 69 01 57 % 60 51 44 3 |
| | Hill Tipperal Tipperah | Agartola Comilla Chandpore Brahmunberia Ramchandra- | | | == | | | | | Nii Nii Nii | Nil Nil Nil | Nil Nil Nil | 0.62 0.71 0.48 0.45 | 67*24 56*78 54*64 | 60 41 74 00 74 20 60 83 |
| | | pore Nasirnagar Daudkandi Kasba Laksham | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | P P P P P P P P P P P P P P P P P P P | 76:11 34:81 30:44 51:71 68:55 | † † † * * |
| | Mymensingh. | ishoregung- Atia (Tangai/ Mymensingh Jamslpore - Netrokuna - Subornakhall, Durganore - ShereporeTown Dewangan, - | | | | | | | | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil Nil Nil | NII 6°81 0°05 NiI NII 0°42 NII NII NII | 0°37 0°19 0°28 0°22 0°02 P P | 68°87 56°62 78°05 79°16 96°54 58°25 118°07 67°41 72°90 | 69*11 54 8 73*3 64*4 80*0 7 |
| North BESGAL. | Pubna | Pubna | | | | | | | | Nil Nil | Nil Nil | Nil 1:14 | 0°14 0°35 | 46'08 63'81 | 53°3 52°1 |
| | Bogra | Sherepore Nowkhills Bogra "anchbibi" . | | | | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | 0:59 0:37 0:68 Nii | 0°54 0°47 0°22 0°01 | 77-86 66-79 79-92 91-46 | 57.7 53.7 60.3 53.2 |
| | Кајићаћуи | Benuieah Nattore Naopaon Laipore Manda | | | | | | | ****** | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | 0°95 1°55 0°30 Nii Nii | 0°15 0°26 0°01 ? | 72:29 88:84 66:15 52:38 48:04 | 52°4 54°1: 51°8 9 |
| | Maldah | Maldab Chanchal Gajol Sibganj | | | | | | | | Nil Nil Nil Nil | Nil Nil Nil | 0°03 Nii Nii 0°12 | 6.10 0.10 0.10 | 64.65 59.62 84.40 62.66 | 50°9 56°1 9 |
| | llinagepore | Mohadebpore Churamon daigunge Dinagepore Halcorghat Thakoorgaon | | | | ******* ****** ****** | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 0'08 Nil 0'06 0'08 0'08 | 67:94 80:28 92:75 86:80 81:61 107:04 | 55 9 52 0 57 & 63 5 51 0 |
| | Rungpore | B inwaniguost (Gyabanda) Rungpore Aurigran Bagdokra (Nitphawari | | | | | | | | Nil Nil Nil | Nil Nil Nil | Nil Nil Nil | 0.05 0.19 0.00 0.00 | 123'00 96'56 95'59 111'28 | 62 0 74 0 72 6 83 8 |
| | Jalpigoree | Jupikoree dispore Dooar Fallacotta Debiganj | | ****** | | ****** | **** | | | Nil Nil Nil Nil | NII NII NII NII | Nil Nil Nil Nil Nil | 0.08 | 97°52 156°26 187°47 146°30 115°70 | 116.7 116.7 1 |
| | Cooch Benst | Bhagatpore (Nagrakatta) Dinhaces Goven Bener Mickilgunge | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 0°02 0°02 Nii 0°01 | 182'64 128'95 169 37 146'35 171'61 | 94 4 117 % 104 4 1(1/8) |
| | Darjeeling Hill. | Sulligari Jarjeenas Kaimping Kurseong | 0.03 | | 0.04 | | | | | Nil Nil Nil Nil | 0'09 Nil 0'04 Nil Nil | 0'09 Nii 6'04 Nii Nil | 0°29 0°07 0°07 0°13 | 216*73 178*31 150*36 123*00 192*78 | 191 of 102 of 107 17 27 07 |
| eth Benar | Purnesh | Kissengunge Arrareah Purneah Gondwara Balarampore Manari | | | | | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 0.02 0.03 0.06 9.9 | 105:38 83:78 89:30 100:45 63:98 | 69:61 63:14 60:07 7 |
| | North Bhagul- por | Kaliagan; Maddapure Soppol Protagganj | ****** | | ****** ***** ***** ***** | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | 0.03 Nil | 118'55 61 61 63'21 49'30 | 48 09 47 58 2 |
| | Durbhungs | Tajpore Durboungs Madhubani Rahera | | | | | | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | 0:04 0:01 Nil 9 | 51.70 58.56 62.61 52.58 50.42 | 42:37 45:09 44:20 |
| | Mozufferpore | Sitamarhi Mozufferpore Hampore Paru Manus | 20.00 | | | | A | | | Nil Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil Nil | Nil 0.02 0.06 6 | 52'96 56'13 48'60 70'81 44'79 | 42 87 44 63 41 20 |
| | | Stuhar | | | | | | | ***** | Nii Nii | Nil Nil | Nil Nil | | 5010 | |

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890-cone

| | | | | The same | R | AINPAL | L. | | | Ton | TAL | | | | |
|-----------------------------|------------------------|--|----------------------------|--------------------------|---------------------------|---|------------|---|---------------------------|---|--|---|---|--|--|
| Meteorological Division. | District, | Station. | Saturday, 8th November. | Sunday, 9th November. | Monday, 16th November. | Tuesday, 11th November. | Wednesday, | Thursday, 13th November. | Friday, 14th November. | Number of rainy days. | Rainfall of week, | Total rain- fail since 1st of month. | Average total rain- fall from 1st of month. | Total rainfall since 15th May 1890. | Average rainfa from 10 May 10 date |
| NORTH BEHAR -concluded. | Chumparun | Motihari Bettiah Bagaha Burhurwa | | | | | | === | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil | 72.66 64.89 58.86 | 41 47 |
| SOUTH BRHAN | Sarun Shahabad | Gopalgunge Sewan Chuprah Buxar | | | | | | | | Nil Nil Nil Nil | NII NII NII NII | Nil Nil Nil Nil | 0°03 0°04 0°03 0°06 | 52°67 59°84 48°27 53°47 | 42 43 30 41 |
| | | Bhabooah Sasseram Arrah Mohaniah | | | | | | | | Nil Nil Nil Nil Nil | NII NII NII NII | Nil Nil Nil Nil Nil | 0.04 0.33 0.02 0.02 0.02 | 45°14 41°21 44°19 66°96 | 43 39 41 39 40 39 39 |
| | Gya | Aurungabad Gya Nowadah Jehanabad Arseal | | | | ***** | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | 0°12 0°22 0°09 0°14 | 59'49 60'04 54'84 53'35 | 41 41 39 |
| | | Arwal Daudnagar Sherrghati Rajauli PakriBarawan | | | | ****** *** ** ***** | | | | NII NII NII NII | Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil | | 29'85 36 81 45'60 54'24 | |
| | Patna | Patna Dimapore Rehar Barrh Bickram Hilsa | | | | | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 0.05 0.05 0.18 0.18 | 50°02 52°13 40°93 43°25 58°33 | 41 40 41 30 |
| | Monghyr | Begooserai Monshyr Jamui Gogri | ***** | | | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil | 0°21 0°07 0°03 | 50°24 44°29 54°84 60°22 76°44 | 30 45 42 |
| | South Bhagul- pore. | Sheikpura Bhagalpore Banka Kolgang Bongaon | | | | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nil Nil Nil Nil Nil | 0:21 0:07 ? | 47.76 59.77 42.11 62.06 | 41 43 |
| | Sonthal Pergunnabs. | Rajmehal Godda Pakour Nya Doomka Deoghur Jamusta Mohasama Nanihat | | | | ***** | | ******* ***** ***** ***** ***** | | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil Nil | Nii Nii Nii 0 11 Nii 2 15 Nii 1 30 | 0.11 0.05 0.05 0.18 0.09 0.30 7 | 56'86 50'75 74'16 74'11 40'43 76'43 48'81 32'28 | 51 45 54 56 44 67 |
| CRUTTA NAG- | Hazaribagh | Pachamba (Giridi). Hazaribagh Semtagurah | 0.03 | | | ****** | | | | Nil Nil | Nil 0'02 | Nil 0.03 | 0.10 0.10 | 65°35 49°97 | 46 47 |
| | | Mahudi Hills Jhoomra Hills Barhi Chatra Karagdeha Ramphar | | | | | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil | 0°23 0°33 0°09 P P P | 38'89 45'02 56'80 50'24 47'08 57'34 50'24 | 457 445 448 59 |
| | Lohardugga | Lohardugga Rauchi Palamow Silli Balumat Hosseinabad Garwah | | | | === ================================== | | | | Nil Nil Nil Nil Nil Nil | Nil Nil Nil Nil Nil Nil Nil | Nil Nil Nil 0°35 Nil Nil Nil | 0.07 0.27 0.33 1 | 53'19 44'87 44'27 43'85 43'62 41'75 | 45 51 42 |
| | Singbhoom | Chyebassa Chakradhar- pore. Ghatsilla | | | == | | | | | Nil Nil | Nil Nil Nil | Nil Nii Nii | 0.52 | 38'30 33'94 24'83 | 50 |
| | Manbhoom | Purulia Gobindpore Raphunath- pore. | | ***** | = | | | | | Nil Nil Nil Nil | Nil Nil Nil Nil | Nii Nii 0'21 0'40 | 0°16 0°14 P | 51146 50193 44123 38184 02126 | 45 41 |
| | | Barrabhoom Jhalda Chas | | | === | == | | | ***** | Nil Nil Nil | Nil Nil Nil | Nil o Nil Nil | ? ? | 44'15 64'71 50'18 | |

Explanation.indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank.

CALCUTTA, the 18th November 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 14TH OF NOVEMBER 1890.

Fine weather has prevailed almost without interruption over the whole province throughout the week, and the general conditions have undergone very little change from day to day. Pressure has been above the normal, and temperature after the first day or two has been steadily falling. Wind circulation, except towards the end of the week, was westerly in the western districts, and gradually became more northerly towards the east. In the Bay

steady northerly winds of light or moderate force have blown almost continuously.

At the beginning of the week pressure was very high, readings being over 30 inches at all stations, and diminishing from 30 1 in the north of Bengal to a little over 30 inches in the extreme south of the Bay. Southerly winds were blowing in Chutia Nagpur and the west of South Behar, owing to a local high-pressure area over the country surrounding Gya. Hazaribagh, and Ranigunge, which caused faintly defined anti-cyclonic winds in its neighbour-hood. Temperature was falling in the northern districts and rising in South-West and North Bengal and Assam, while nearly all stations reported light cloud. Pressure began to fall very slowly on the 9th, and the cloudy weather continued, a light shower of rain being reported from Cuttack. The fall of pressure was moderate on the 10th, but conditions underwent no change, except that light showers were more frequent in Orissa and a few drops fell at Buxa and Darjeeling Till about the end of the week there was no further change, pressure tended to become more uniform, and low in the northern districts, especially on the 13th, when westerly or south-westerly winds blew at nearly all stations, and on the 14th notwithstanding the general rise.

Pressure—Was considerably above the normal at the beginning of the week, and after-

wards very nearly normal Means are therefore in excess at all stations by amounts varying

from '02 inch over the greater part of the province to '05 inch in East Bengal.

Temperature Has been steadily falling and almost always below the normal. From the table below, giving mean temperature at representative stations, it may be seen that defect has been almost the same in maximum and minimum readings; the only notable differences occurring at Darjeeling, where the mean night temperature is above the normal by 1.6° and the day temperature below by about 1°; and at Puraeah, where defect was considerably greater during the day than at night. The mean for Orissa is normal, and for the other districts below—North Bengal by '4°, South-West-Bengal and Chutia Nagpur by '7°, East Bengal and South Behar by 1.6°, and North Behar by 1.9°.

The warmest days were the 9th and 10th in Lower Bengal, and the 13th and 14th in North Bengal and Behar, maximum temperature being generally between 82° and 84°. The coldest nights were the 11th and 12th in all districts except North Bengal and the

adjacent part of North Behar, where temperature was lowest on the 9th and 10th:-

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 14th of November 1890.

| | | | Normal mean maximum tem- perature for the week ending IMh November. | Actual mean maximum tem- perature for the week ending 14th November 1899. | Variation of actual mean from the normal. | Normal mean minimum tem- perature for the week ending 14th November. | Actual mean minimum tem- persture for the week ending 14th November 1890. | Variation of actual mean from the normal. | Normal mean daily tempera- ture for the week ending 14th November. | Actual mean daily tempera- ture for the week ending 14th November 1890. | Variation of actual mean from the normal. |
|--|--|--|---|---|--|--|---|--|--|---|--|
| Outtack Calcutta Dacca Burdwan Patma Gya Purnean Huzaribagh Darjeeling | | | 96°3 82°5 85°1 84°0 83°3 84°3 84°3 78°3 54°9 | 85.7 80.9 83.5 83.0 81.3 82.9 80.2 77.0 54.0 | +0'4 -1'6 -2'6 -1'0 -2'0 -1'4 -3'2 -1'3 -0'9 | 67.6 66.1 67.8 65.2 61.5 60.6 60.9 59.0 41.9 | 68.7 64.6 65.5 64.9 59.1 59.0 59.7 57.1 43.5 | +1.1 -1.5 -2.3 -0.3 -2.4 -1.6 -1.2 -1.9 +1.6 | 76'9 74'3 76'5 74'6 72'4 72'5 72'2 68'7 48'4 | 77.7 72.8 74.0 74.0 70.2 71.0 70.0 67.1 48.8 | +0.8 -1.5 -2.5 -0.6 -2.2 -1.5 -2.2 -1.6 +0.4 |

Rainfall .- A few light showers fell in Orissa in the early part of the week, giving a mean fall of .08 inch. The other districts have been rainless.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of November 1890:—

| | | | TEMPI | BRATU | RE. | | | | | R | AINFA | LL. | | | | |
|------------------------------|-------------------------|------------------------|-------------------------|------------------------|-----------------------|------------------------|----------|-----------------|------------|-------------------------|-------------------------------------|------------|------------------------|-----------------|-------------------------|-----------------|
| | week. | week, | Averages for week. | | | above or week. | Of week. | | | R | ainy da | Lys. | Since 1st of month. | | Since 15th May 1890. | |
| METHOROLOGICAL DIVISIONS. | Highest observed during | Lowest observed during | Of highest of each day. | Of lowest of each day, | Of mean for each day. | Average mean of week a | Average. | Normal average. | Variation. | Average number in week. | Normal average num- ber in week, | Variation. | Average. | Normal average. | Average. | Normal average, |
| Orissa | 87:9 | 59'6 | 84'9 | 68'5 | 76'4 | . 0 | 0.08 | 0.13 | -0:05 | 0'4 | 0.5 | +0.5 | 1.20 | 0.88 | 63'27 | 52.12 |
| South-West Bengal | 86'8 | 57.5 | 82'8 | 64.4 | 73.6 | -0.7 | Nil | 0.04 | -0.04 | 0.0 | 01 | -0.1 | 0.17 | 0.28 | 56.83 | 51'28 |
| East Bengal | 87:3 | 60.5 | 81'8 | 64.8 | 73'3 | -1.6 | Nil | 0.10 | -0'10 | 0.0 | 0.3 | -0.5 | 0.17 | 0.79 | 71:49 | 73'38 |
| North Bengal | . 83'8 | 60'3 | 81.5 | 62.7 | 72.1 | -0.4 | Nil | 0.06 | -0 06 | 0.0 | 0.1 | -0.1 | 0.55 | 0.13 | 95 09 | 68:80 |
| North Behar | . 83'2 | 55.0 | 80*8 | 60.7 | 70'8 | -1'9 | Nil | 0.01 | - 0.01 | 0.0 | 01 | -01 | Nil | 0.02 | 64'38 | 47:92 |
| South Behar | 84'8 | 54'5 | 81.8 | 58'5 | 70.2 | -1'6 | Nil | 0:04 | -0.01 | 0.0 | 0.1 | -01 | 0.00 | 0.15 | 54'66 | 43.09 |
| Chutia Nagpur | 79.2 | 51.2* | 77:5* | 50.7* | 67:1* | -0.7* | Nil | 0.06 | -0 06 | 0.0 | 0.1 | -0.1 | 0.05 | 0.50 | 46 00 | 48'14 |

^{*} Chyebassa not included.

Metrorological Office, Bengal; The 18th November 1890. C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th November 1890.

| MONTE. | | A.M. | | | TEMP | ERATURE, | | | H | YGROMETRI | | urs. |
|---------|---|--|--|--|--|--|--|--|---|--|--|------------------------|
| | Date. | Pressure at 10 A.M. corrected and reduced to 32° Fahr. | Daily mean. | Maximum, | Range. | Minimum. | Dry bulb at 10 | Wet bulb at 10 | Vapour pressure at 10 A.M. | Dew point at 10 A.M. | Humidity at 10 A.M. | Rainfall past 24 hours |
| | | Inches. | • | | | 0 | 0 | a | Inches. | 0 | % | Inches |
| ovember | 9th 10th 11th 12th 13th 14th 15th | 30·058 ·029 ·030 ·016 ·015 ·041 ·037 | 77.8 73.6 72.4 72.6 72.4 73.1 73.0 | 84.7 81.9 81.1 82.4 82.9 82.9 81.0 | 13.9 16.6 17.5 19.7 21.0 19.7 16.1 | 70·8 65·3 63·6 62·7 61·9 63·2 64·9 | 79·6 77·8 78·4 75·4 76·6 77·6 75·6 | 74 5 68 6 66 8 65 3 66 8 68 6 67 6 | 787 578 504 491 527 580 558 | 72·0 63·0 59·2 58·4 60·4 63·2 62·0 | 78 61 52 56 58 61 64 | |

| | | | BEAT NEW YORK | Inches. |
|--|-----------|---|---------------|---------|
| The mean 10 A.M. pressure of the seven days | | | *** | 30.032 |
| The mean temperature of the seven days | | | | 73.6 |
| The extreme variation of temperature | | 7 | | 22.8 |
| The maximum temperature | | | | 84.7 |
| The mean 10 a.m. relative humidity of the se | even days | | | 61 |
| The total fall of rain from 9th to 15th Nove | mber 1890 | | | Inches. |

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOBOLOGICAL OFFICE, INDIA; The 17th November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal, for the week ending with Saturday, the 25th October 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 25th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 19.4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 7.2 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below:—

| | 1885. | 1886. | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1896. |
|---|-------|-------|-------|-------|-------|---|-------|
| Ratio of births per 1,000 of the population per annum | 25.6 | 27'1 | 23.6 | 31:3 | 25.6 | 26'6 | 19*4 |

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

| Arrana ara | v | VEEKS E | nding- | | | | VEEKS E | NDING- | | |
|------------|---|--|---|---|---|--|---|---|--|--|
| Towns. | 4th Oct, 1896. | 11th Oct. 1890. | 18th Oct., 1890. | 25th Oct. 1890. | Towns. | | 4th Oct. 1890. | 11th Oct. 1890. | 18th Oct. 1890. | 125th Oct. 1890. |
| Burdwan | 53:4 17:0 34:5 47:1 9:4 25:2 28:1 26:5 12:0 26:3 63:1 12:2 13:0 | 18:7 18:8 41:0 49:1 37:7 29:2 31:6 9:6 12:0 17:5 6:1 89:4 51:9 18:8 | 33°6 7°7 49°2 23°6 47°2 24°6 28°1 18°0 8°8 6°1 31°5 51°9 24°0 | 13.7 7.7 27.9 43.2 25.2 24.6 15.1 18.0 12.2 36.8 14.8 13.0 | Narninganj chittasong comillah Patna City Gya Arrah Mozufferpore Duronanga Chupra Bhagulpore Wonkhyr Purneah Poort Total | | 37'8 9'4 15'4 19'8 36'9 47'9 24'3 40'9 26'2 57'9 10'4 14'7 | 49.7 9.4 27.0 12.3 30.7 45.5 29.2 43.3 48.3 42.5 58.8 20.8 18.9 | 24'8 9'4 27'0 14'3 39'6 26'3 21'9 37'0 40'3 16'3 37'1 6'9 16'8 | 70°4 46°2 12°3 12°3 21°3 24°3 36°3 11°3 46°3 16°3 |

It will be seen that last week the highest birth-rate was returned from Narainganj (70.4) and the lowest from Midnapore (7.7). No births were registered during the week in Utterpara, Santipore, Chittagong and Bhagulpore towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 20·4 per 1,000 of the population. The rate of the week is 10·5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below:—

| | 1885. | 1888. | 1887. | 1888. | 1889. | Weekly average of five years, 1885-89. | 1890. |
|---|-------|-------|-------|-------|-------|---|-------|
| Ratio of deaths per 1,000 of the population per | 82.6 | 86 y | 2472 | 34'3 | 26.3 | 30.9 | 20'4 |

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

| | | , v | VEEKS : | ENDING- | - | | | WEEKS ENDING- | | |
|---|--|---|--|--|---|---|--|--|---|--|
| Towns. | | 4th Oct, 1890. | 11th Oct. 1890. | 18th Oct. 1806, | 25th Oct, 1890. | Towns. | 4th Oct, 1890. | 11th Oct. 1890. | 18th Oct. 1890. | 25th Oct, 1890, |
| Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Krishnaear Rannghat Santipore Jessore Rampore Beanlesh Darjüling Jacca | | 30°5 15°5 24°6 29°4 28°3 18°9 24°6 18°9 0°0 12°3 18°4 36°8 22°2 17°5 | 24'4 27'9 27'9 48'2 28'3 18'3 28'1 6'7 12'0 3'5 80'6 44'5 18'2 | 22'9 12'4 29'5 47'1 37'7 17'8 24'6 7'6 24'0 8'5 42'0 51'9 18'2 | 22'0 9'3 14'8 60'8 19'5 28'1 30'4 49'9 44'5 25'9 | Narainganj Chittagong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Monghyr Purneah Poori Total | 16'6 9'4 777 14'9 47'1 18'2 25'5 35'4 34'2 14'5 30'7 10'4 25'2 | 37:3 16:4 15:4 29:4 54:0 23:9 24:7 27:2 14:5 29:8 17:3 42:0 | 24'8 14'1 11'6 15'9 60'1 12'0 88'9 20'5 20'1 17'2 21'7 6'9 25'2 | 2377 1571 3476 2979 2474 2075 1872 |

It will be seen that last week the highest mortality occurred in the town of Serampore (60.8) and the lowest in Krishnagar (3.8) No deaths were registered during the week in Utterpara, Santipore, Chittagong and Bhagulpore towns.

Measured by last week's mortality, the highest annual death-rates from cholera, fever

and other causes occurred in the following towns:-

| | Cholera. | | | The state of the | Fever. | | 0. | ther c | causes. | |
|---|-----------|---|--------------------------|---|--------|--|---------------------------|--------|---------|----------------------|
| | | 3 | Ratio per | | | tio per | | | | atio per millo. |
| Chupra Mozufferpore Arrah Patna City Monghyr Durbhanga | ! | | 6·1 6·0 3·6 3·6 | Darjiling Rampore Ber Serampore Jessore Narainganj Gya | auleah | 44·5 36·8 31·4 30·6 24·8 21·2 | Serampore Gya Poori | | | 13:7 12:9 12:6 |

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1.9 from cholera, against 2.2 per 1,000 in the preceding week; 10.4 from fever, against 11:; 2:8 from bowel-complaints, against 3:7; '4 from injury, against 11; and 4:8 from other causes, against 5:7 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Serampore town, there being six deaths (11:8 per 1,000 of the population). No deaths were registered from small-pox during the week.

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.

According to Class.

According to Age.

| | Ratio per mille, | | - 1 | Ratio per mille. | | | tatio per |
|--|---------------------|------------------------------------|-----|---------------------|---|---|--|
| Males Females Ratio of male deaths to every 100 female deaths, calculated on the pro- portion such mortality bears to the total male and female population | | Christians Hindus Mahomedans | | | Under 1 yet 1 and under 5 ". 10 ", 15 ", 30 ", 30 ", 10 ", 50 ", 50 ", 50 years and | 5 years 10 ", 15 ", 20 ", 30 ", 40 ", 50 ", | 143·4 30·8 16·0 16·2 11·6 9·6 16·0 12·9 14·1 51·4 |

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 15th November 1890.

Sanitary Commissioner for Bengal.

| MALLITY Comparison Compari | MORTALITY | ### COUNDING TO SEE THE PARTY 1 1 1 1 1 1 1 1 1 | ### Company of the property of |
|--|--|--|--|
| MORTALITY ACCORDING 15 1 | MORTALITY ACCORDING 15 1 | ### CORPLIATOR | # 1 |
| ACCUBING: ** ** ** ** ** ** ** ** ** ** ** ** ** | ACCUBING: ** ** ** ** ** ** ** ** ** ** ** ** ** | ACCORDING TO THE PARTY OF THE P | AGONE State of the property of |
| Age. 1 1 1 2 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | Age. 1 1 1 2 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | Age, 15-74 15-75 1 | Age |
| | | 16 | 01 188 |
| | 2 | 04 nebru bra 08 0 0 1 1 1 2 2 1 1 2 2 2 2 3 2 3 1 2 3 9 1 | 1 95 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15 |

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 8th November 1890, as compared with the corresponding week of the previous year.

| | | WEEK EN 8TH | DING SATURD NOVEMBER 18 | AY, THE 590, | | DING SATURD NOVEMBER 18 | |
|---|----|----------------------------|--|------------------------------|----------------------------|--|--------------------------------|
| NATURE OF CARGO. | | Number of boats. | Weight of cargo. | Tollage. | Number of boats. | Weight of cargo. | Tollage. |
| | | No. | Mds. | Rs. | No. | Mds. | Rs. |
| Rice and paddy Jute Firewood Other articles | :: | 394 402 139 1,029 | 62,105 2,58,175 62,125 2,62,850 | 925 4,602 865 4,268 | 250 351 213 1,291 | 56,825 1,52,711 93,975 2,36,385 | 935 2,729 1,463 4,005 |
| Total | | 1,964 | 6,45,255 | 10,660 | 2,105 | 5,39,896 | 9,132 |

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 15th November 1890, as compared with the corresponding week of the previous year.

| | | | | DING SATURE NOVEMBER 1 | WEEK EN | NDING SATURDAY, THE | | | |
|--|----------|----|----------------------------|--|--------------------------------|--------------------------|--|--------------------------------|--|
| NATURE O | P CARGO. | | Number of boats. | Weight of cargo, | Tollage. | Number of boats. | Weight of cargo. | Tollage. | |
| | | | No. | Mds. | Rs. | No. | Mds. | Rs. | |
| Rice and paddy Jute Firewood Other articles | | :: | 407 346 152 1,284 | 67,840 1,71,475 87,125 3,13,425 | 977 3,642 1,249 4,513 | 188 339 166 982 | 36,075 1,82,525 1,23,415 2,16,445 | 585 3,238 1,279 3,452 | |
| | Total " | | 2,189 | 6,39,865 | 9,781 | 1,675 | 5,58,460 | 8,554 | |

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 1,5251 miles open.

| | COACHIN | G TRAVFIC. | | E AND MINERAL APPIC. | Other earnings | | TRAFFIC TRAIN-MILES RUN | | | |
|---|-----------------------|----------------------------|-----------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------|------------|--|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | Total earnings. | Coaching. | Merchan- dise. | Total. | |
| | | Rs. A. P. | MDS, S | Rs. A. P. | Rs. A. P. | Rs. A. P. | | | | |
| Total traffic for the week Or per mile of rallway | *220,310 | *2,95,675 \$ 0 193 13 2 | 21,93,820 0 | 6,01,032 5 0 894 9 3 | 15,349 15 0 10 1 0 | 9,12,957 7 0 598 7 5 | 69,5432 | 84,788 | 154,332 | |
| For previous 18 weeks of half- year | 4,010,299 | 41,74,996 5 0 | 3,31,20,139 0 | 76,39,872 13 6 | 2,91,055 6 8 | 1,21,05,924 9 2 | 1,152,2011 | 1,351,2621 | 2,503,464 | |
| Total for 19 weeks | 4,230,609 | 44,70,671 8 0 | 3,53,13,959 0 | 88,41,805 2 6 | 3,06,405 5 8 | 1,30,18,882 0 2 | 1,921,7451 | 1,436,051 | 2,657,7961 | |
| COMPARISON. | 1 | | | | | | | | | |
| Total for corresponding week of previous year | 282,696 | 3,42,566 12 6 | 20,76,541 30 | 5,53,785 8 3 | 21,222 9 10 | 9,17,524 14 7 | 66,987 | 81,284 | 148,271 | |
| ing week of previous year Total to corresponding date of | | 224 9 0 | | 362 15 9 | 18 14 7 | 601 7 4 | | | | |
| previous year | 4,562,2894 | 48,63,358 13 9 | 3,94,13,925 20 | 86,53,947 4 6 | 3,25,881 6 0 | 1,38,43,187 8 3 | 1,240,758 | 1,515,014 | 2,755,773 | |

^{*} The decrease in coaching traffic is due to figures for the corresponding period of 1880 having included traffic on account of "Rash Poornima" and Sonepur fair.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

| RECRIPTS FOR WEEK ENDING 9TH NOVEMBER 1889. | | | | TS POR WERE NOVEMBER 1 | | ΔI | RECRIPTS PROPRIE 1889 TO 97 | п | TOTAL RECEIPTS FROM 18T APRIL 1890 TO STH NOVEMBER 1890. | | | Total | Total |
|--|-----------------|------------------------|----------------------------|---------------------------|------------------------|----------------------------|-----------------------------|---------------------------------------|--|-----------------------------------|---------------------------------------|-------------------|----------------------|
| Mean mileage Forked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Per mile worked per woek. | Mean mileage worked. | The second in the second printers | Per mile worked per week. | increase in 1890. | aternase in 1890, |
| 1,525) | Rs. 9,17,526 | Rs. | 1,525} | Rs. 9,12,957 | Rs. | 1,5254 | Rs. 2,58,69,939 | Rs. | 1,525} | Rs. 2,41,37,819 | Ru. | Rs. | Rs. 17,32,127 |

PATNA-GYA STATE BAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 571 miles open.

| | COACHING | TRAPPIC. | MERCHANDISE TRAFF | | Other earnings | Total earnings. | TRAFFIC ' | PRAIN-MILE | S RUN |
|--|-----------------------|-----------------------|---------------------|-----------------------|-----------------|-----------------------|-----------|-------------------|--------|
| | Number of passengers, | Receipts. | Weight carried. | Receipts. | (estimated). | Totalearaings. | Coaching. | Merchan- dise. | Total |
| | | Rs. A. P. | MDs. s. | Rs. A. P. | Rs. A. P. | Rs. A. P. | La Carrie | | |
| Potal traffic for the week Or per mile of railway For previous 18 weeks of half- | 10,807 189 | 5,876 1 0 102 11 8 | 53,213 10 930 20 | 8,478 12 0 60 13 1 | 23 9 0 0 6 7 | 9,378 6 0 163 15 4 | 1,881# | 561 | 2,442 |
| year | 208,477 | 1,24,294 8 0 | 5,70,210 20 | 38,100 4 0 | 601 15 0 | 1,62,996 11 0 | 23,9694 | 9,563 | 83,539 |
| Total for 19 weeks | 219,284 | 1,30,170 9 0 | 6,23,428 30 | 41,579 0 0 | 625 8 0 | 1,72,375 1 0 | 25,8514 | 10,124 | 35,975 |
| COMPARISON. | | 100 | | | | | | | |
| Potal for corresponding week of previous year | 23,354 | 12,858 9 0 | 30,898 0 | 2,137 0 0 | 47 5 9 | 15,042 14 9 | 1,948 | 466 | 2,41 |
| ing week of previous year | 408} | 224 12 10 | 540 10 | 37 5 9 | 0 13 3 | 262 15 10 | | | ****** |
| otal to corresponding date of previous year | 268,911 | 1,51,229 8 0 | 8,50,953 30 | 42,062 15 0 | 798 5 0 | 1,94,085 12 0 | 28,839 | 13,784 | 49,57 |

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

| | NOVEMBER | | RECEIP: | rs FOR WEEK NOVEMBER 1 | ENDING 890. | A | L RECEIPTS FRO PRIL 1889 TO 92 NOVEMBER 1889 | CH | A | L RECEIPTS FRO PRIL 1890 TO 8 NOVEMBER 1890 | TH | Total - | Total |
|----------------------------|-----------|------------------|----------------------------|---------------------------|------------------------|----------------------------|--|---------------------------------------|----------------------------|---|---------------------------------------|----------------------|----------------------|
| Mean nileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked, | Total receipts. | Per mile worked per week. | Mean mileage worked. | | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Rs. | Ra. | | Rs. | Rs. | | Rs. | Rs. | 100 | Rs. | Rs. | Ra. | Ra. |
| 571 | 15,043 | 263 | 571 | 9,378 | 164 | 573 | 3,08,082 | 168 | 571 | 2,99,120 | 163 | | 8,962 |

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 224 miles open.

| | COACHING | TRAFFIC. | MERCHANDISE . TRAFF | | Other earnings | Total | TRAFFIC | TRAIN-MIL | ES RUN. |
|--|-----------------------|-----------------------|------------------------|--------------------|----------------|------------------------|-----------|-------------------|---------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | (estimated). | earnings. | Coaching. | Merchan- disc. | Total, |
| | | Rs. A. P. | Mns. s. | Rs. A. P. | Rs. a. P. | Rs. A. P. | | | 125 |
| Total traffic for the week Or per mile of railway For provious 18 weeks of half- | 18,121 | 4,687 5 0 210 10 8 | 13,076 20 | 511 1 0 22 15 6 | 6 6 0 0 4 7 | 5,204 12 0 233 14 9 | 912 | | 968 |
| year | 290,747 | 70,777 6 0 | 1,08,779 20 | 4,310 6 0 | 94 4 0 | 75,211 11 0 | 16,256 | 838 | 17,004 |
| Total for 19 wooks | 308,868 | 75,464 6 0 | 1,21,856 0 | 4,851 7 0 | 100 10 0 | 80,416 7 0 | 17,168 | 894 | 18,069 |
| COMPARISON. | 0 0.00 | | The same | has being | 15-16-2-5 | | | | 200 |
| Total for corresponding week of previous year | 22,576 | 5,902 12 8 | 12,780 10 | 510 8 0 | 4 9 6 | 6,417 14 2 | 889 | 59 | 968 |
| ing week of previous year Total to corresponding date of | ****** | 265 4 8 | | - 22 15 1 | 0 3 4 | 288 7 1 | ****** | | **** |
| previous year | 341,569 | 83,262 11 0 | 1,74,879 20 | 4,723 0 0 | 108 3 9 | 88,093 14 9 | 17,474 | 1,329 | 18,800 |

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 23rd July 1883.

| RECEIPTS 9TH | FOR WEEK NOVEMBER | ENDING 1889. | RECEIP: | rs for week November 1 | ENDING 890. | A | RECEIPTS PROPRIE 1889 TO ST NOVEMBER 1889 | ц | Δ | RECEIPTS FRO PRIL 1890 TO 87 NOVEMBER 1890. | п | Total | Total |
|----------------------------|----------------------|-----------------|----------------------------|---------------------------|----------------|----------------------------|--|-----|----------------------------|---|---------------------------------------|----------------------|----------------------|
| Mean miteage worked. | Receipts. | Per mile worked | Mean mileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked. | r. Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Rs. | Rs. | | Ra. | Rs. | | Rs. | Rs. | | Rs. | Rs. | Rs. | Rs. |
| 221 | 6,418 | 288 | 221 | 5,205 | 234 | 222 | 1,70,781 | 240 | 221 | 1,65,265 | 239 | | 5,466 |

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.) Approximate Return of Traffic for week ended 1st November 1890, on 763 miles open.

| | COACHIN | G TRAFF | to. | MERCHANI | | HAND MIN | RR | AL | Other earning |), | Total | TRAFFIC | TRAIN-MILE | S RUN. |
|--|-----------------------|---------------|-------|-----------------|----|-----------------|-----|------|-------------------------|----|-------------------------|-----------|-------------------|--------|
| and the second | Number of passengers. | Coach | | Weight carried. | | Receip | pts | | including steam-boat | | earnings. | Coaching. | Merchan- dise. | Total. |
| | | Rs. | A. P. | MDS. | 8. | Rs. | 4 | . Р. | Rs. A. | P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway | 130,177 171 | 69,350 91 | | 7,46,434 978 | 0 | 2,02,320 265 | 0 | 200 | 28,340 0 †20 0 | 0 | 3,00,110 0 0 376 0 0 | 21,902 | 37,450 | 59,35 |
| For previous 17 weeks of half- | 2,329,587 | 9,96,069 | 0 0 | 97,63,233 | 0 | 24,49,825 | 0 | 0 | 2,49,492 0 | 0 | *30,95,386 0 0 | 366,597 | 555,627 | 922,52 |
| Total for 18 weeks COMPARISON. | 2,459,764 | 10,65,419 | 0 0 | 1,05,09,667 | 0 | 26,52,145 | 0 | 0 | 2,77,832 0 | 0 | 39,95,396 0 0 | 888,499 | 593,077 | 981,57 |
| Total for corresponding week of previous year | 163,336 219 | 84,462 113 | | 6,09,347 816 | | 1,51,357 203 | | 0 | 38,889 0 †26 0 | 0 | 2,74,708 0 0 342 0 0 | 29,992 | 80,850 | 53,85 |
| Total to corresponding date of previous year | 2,458,124 | 11,04,661 | 0 0 | 1,12,78,837 | 0 | 27,45,241 | 0 | 0 | 3,03,693 0 | 0 | 41,53,595 0 0 | 406,268 | 567,632 | 973,90 |

^{*} Audited up to week ending 30th August 1890, † Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

| | NOVEMBER 1 | | | TS FOR WEEK NOVEMBER 18 | | Δ | L RECRIPTS FRO PRIL 1889 TO 2 NOVEMBER 1889 | ND | A | PRIL 1890 TO 1 NOVEMBER 1890 | | Total | Total |
|----------------------------|------------|------------------------|----------------------------|----------------------------|-----|----------------------------|---|---------------------------------------|----------------------------|---------------------------------|---------------------------------------|----------------------|----------------------|
| Mean nileage rorked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | Per mile worked per week. | Mean milenge worked. | | Fer mile worked per week. | increase in 1890. | decrease in 1890. |
| | Ra. | Rs. | | Rs. | Re. | A contract | Rs. | Rs. | | Rs. | Rs. | Rs. | Rs. |

^{*} Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 125 miles open.

| | COACHIN | G TRAPPI | c. | MERCHANI | | AND MIN | BRA3 | | Other earnings | Total earnings. | A THE RESERVE AND A SECOND PORTION AND A SECOND POR | TRAIN-MIL | RS RUB. |
|--|-----------------------|-------------|-------|---------------|------|-------------|------|---|----------------|-----------------------|--|-------------------|---------|
| | Number of passengers. | Receipt | tn. | Weight carr | ied. | Receip | ots. | | (estimated). | Total earnings. | Coaching | Merchan- dise. | Total. |
| | | Rs. | A. P. | Mps. | 8. | Rs. | A. P | | Rs. A. P. | Rs. A. P. | | | |
| Total traffic for the week Or per mile of railway For previous 17 weeks of half- | 23,608 181 | 9,100 73 | 0 0 | 53,291 426 | 0 | 4,650 37 | 0 0 | | 50 0 0 | 13,800 0 0 110 0 0 | 3,660 | 1,992 | 5,65 |
| Jear | 426,004 | 1,35,049 | 0 0 | 6,82,275 | 0 | 56,587 | 0 (| 0 | 2,678 0 0 | *1,94,314 0 0 | 60,639 | 34,884 | 95,52 |
| Total for 18 weeks | 448,612 | 1,44,149 | 0 0 | 7,85,566 | 0 | 61,237 | 0 (| 0 | 2,728 0 0 | 2,08,114 0 0 | 64,299 | 36,876 | 101,17 |
| Total for corresponding week of previous year | 27,078 | 10,800 | 0 0 | 35,810 | 0 | 2,592 | 0 (| 0 | 859 0 0 | 13,681 0 0 | 3,587 | 2,085 | 8,67 |
| ing week of previous year Total to corresponding date of | 217 | 88 | 0 0 | 286 | 0 | 20 | 0 | 0 | 8 0 0 | 109 0 0 | | | ***** |
| previous year | 480,408 | 1,63,636 | 0 0 | 10,98,872 | 0 | 1,04,580 | 0 | 0 | 3,153 0 0 | 2,71,309 0 0 | 63,595 | 44,933 | 108,52 |

^{*} Audited up to week ending 36th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

| SHD SHD | IS FOR WERE NOVEMBER | ENDING 1889. | RECEIPT 1ST 1 | S POR WEEK NOVEMBER 1 | ENDING | Δ | L RECEIPTS PRO PRIL 1889 TO 21 NOVEMBER 1889 | CD CO | A | L RECEIPTS FRO PRIL 1890 TO 1 NOVEMBER 1890 | ST | Total | Total |
|----------------------------|----------------------|-----------------|----------------------------|--------------------------|--------|----------------------------|--|-------|----------------------------|---|---------------------------------------|----------------------|------------|
| Mean mileage worked. | Receipts. | Por mile worked | Mean mileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked. | | Per mile worked per week. | increase in 1890. | decrease M |
| | Re. | Re. | | Re. | Re. | | Rs. | Ra. | | Rs. | Rs. | Re. | Rs. |
| 186 | 13,681 | 109 | 125 | 18,800 | 110 | 125 | 4,51,216 | 116 | 125 | * 3,73,623 | 96 | | 77,594 |

Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 86 miles open.

| | COACHING | TRAFFI | c. | | MERCHAND | ISR . | | RRAL | Other ear | rnings | Tota | ıl. | | TRAFFIC | TRAIN-MILI | es Run. |
|--|-----------------------|-------------|------|-----|-----------------|-------|-------------|-------|-----------|--------|---------------|-----|----|-----------|-------------------|---------|
| | Number of passengers. | Coach | | 800 | Weight carried, | | Receip | ts. | (estima | | earnin | gs. | | Coaching. | Merchan- dise. | Total, |
| | | Rs. | A. P | | Mps. | 8. | Rs. | A. P. | Rs. | A. P. | Rs. | ۸. | P. | | | |
| Total traffic for the week Or per mile of railway For previous 17 weeks of half- | 13,636 159 | 4,770 56 | | | 42,965 500 | | 5,110 59 | 0 0 | 160 2 | 0 0 | 10,040 117 | | | 2,410 | 694 | 3,10 |
| year | 253,465 | 81,319 | 0 | 0 | 2,74,256 | 0 | 23,389 | 0 0 | 4,436 | 0 0 | *1,09,144 | 0 | 0 | 40,871 | 12,069 | 52,44 |
| Total for 18 weeks | 267,101 | 86,089 | 0 | 0 | 3,17,221 | 0 | 28,499 | 0 0 | 4,596 | 0 0 | 1,19,184 | 0 | 0 | 42,781 | 12,763 | 55,54 |
| COMPARISON. | | | | | | 2 | 100 | | | | | | | | | |
| Total for corresponding week of previous year | 19,964 | 6,434 | 0 | 0 | 24,675 | 0 | 2,707 | 0 0 | 28 | 0 0 | 7,169 | 0 | 0 | 2,524 | 712 | 3,23 |
| Per mile of railway corresponding period of previous year Total to corresponding date of | 282 | 75 | 0 | 0 | 287 | 0 | ,32 | 0 0 | | | 107 | 0 | 0 | | | |
| previous year | 265,364 | 84,744 | 0 (| 0 | 4,03,430 | 0 | 31,816 | 0 0 | 8,763 | 0 0 | 1,20,328 | 0 | 0 | 44,963 | 15,758 | 60,71 |

^{*} Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

| | NOVEMBER | | | TS FOR WEEK NOVEMBER 18 | | A | RECRIPTS PRO PRIL 1889 TO 28 NOVEMBER 1889 | D | | A PRIL 1890 TO 18 NOVEMBER 189 | T | Total | Total |
|----------------------------|-----------|------------------------|----------------------------|----------------------------|------------------------|----------------------------|--|-----|----------------------------|-----------------------------------|---------------------------------------|----------------------|----------------------|
| Mean mileage worked, | Receipts. | Per mile worked. | Mean mileage worked. | Receipts, | Per mile worked. | Mean mileage worked. | Total receipts. | | Mean mileage worked. | | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Rs. | Rs. | | Rs. | Rs. | | Rs. | Re. | | Rs. | Rs. | Rs. | Rs. |
| 86 | 9,169 | 107 | 86 | 10,040 | 117 | 86 | 1,94,602 | 78 | 86 | *2,01,045 | 75 | 6,443 | |

[·] Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 271 miles open.

| | COACRING | TRAFFIC. | MERCHANDISE TRAI | | Other earnings | Total | TRAPPIC | TRAIN-MIL | es Rux. |
|--|-----------------------|--------------------|-----------------------|------------------|----------------|--------------------|-----------|-------------------|---------|
| | Number of passengers. | Coaching receipts. | Weight carried. | Receipts. | (estimated). | earnings. | Coaching. | Merchan- dise. | Total. |
| Total traffic for the week Or per mile of railway For previous 17 weeks of half- | 2,647 97 | Rs. 1,050 39 | MDs. 15,615 573 | Rs. 820 30 | Rs. 10 | Ra. 1,880 69 | 500 | 250 | 750 |
| Total for 18 weeks | 49,747 | 17,596 | 1,76,269 | 9,584 | 259 | *27,439 | 9,252 | 5,804 | 15,056 |
| Total for 18 weeks COMPARISON. | 52,394 | 18,646 | 1,91,884 | 10,404 | 269 | 29,319 | 9,759 | 6,054 | 15,806 |
| Total for corresponding week of previous year Per mile of railway corresponding period of previous year | 3,345 123 | 1,190 44 | 3,665 184 | 220 | 82 | 1,451 | 586 | 286 | 872 |
| Total to corresponding date of previous year | 55,548 | 20,232 | 1,52,868 | 10,077 | 1,387 | 31,696 | 10,398 | 6,510 | 16,90 |

[•] Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

| RECEIPTS | POR WEEK NOVEMBER | | | S POR WHEE NOVEMBER 1 | | AT | L RECEIPTS FRO PRIL 1889 TO 2N NOVEMBER 1889 | D | Δ | L RECEIPTS FRO PRIL 1890 TO 1: NOVEMBER 1890 | ST | Total | Total |
|----------------------------|----------------------|------------------|----------------------------|--------------------------|-----|----------------------------|--|-----|----------------------------|--|---------------------------------------|----------------------|----------------------|
| Mean milenge worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | | Mean mileage worked. | Total receipts. | | Mean mileage worked, | Total receipts. | Per mile worked per week. | increase in 1890. | decrease in 1890. |
| | Ra. | Re. | | Ra, | Rs. | | Re. | Re. | | Rs. | Rs. | Rs. | |
| 271 | 1,451 | 53 | 271 | 1,880 | 69 | 271 | 57,275 | 68 | 271 | * 55,331 | 65 | •••• | 1,044 |

^{*} Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for Week ended 16th August 1890, on 691 miles open.

| | COACHING | TRAPPIC. | MBRCHANDISE A | | Other earnings (estimated), | | TRAFFIC | TRAIN-MILT | is RUN. |
|--|-----------------------------|------------------------------------|---|------------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------|-----------------------|
| | Number of passengers. | Receipts. | Weight carried. | Receipts. | including steam-boat earnings. | Total earnings. | Coaching. | Merchan- dise. | Total. |
| Total traffic for the week Or per mile of railway yer previous 5 weeks of half-year | 74.720 108.13 421,213 | Rs. 28,084 40°64 1,64,522 | MDS. 2,69,224 389-62 14,50,166 | Rs. 31,521 45'62 1,55,831 | Rs. 6,419 9*29 34,990 | Rs. 66,024 95°55 3,55,343 | 11,688 | 11,151 69,287 | 22,839 132,652 |
| Total for 6 weeks | (a)495,932 | 1,92,606 | (8)16,74,390 | 1,87,353 | *41,409 | 4,21,367 | 75,035 | 80,438 | 155,491 |
| Audited figures. Total for corresponding week of previous year (649 miles) yes mile of corresponding week of previous year yes to corresponding date of previous year | 78,407 120'81 545,608 | 26,819 41:32 1,89,297 | 3,89,358 590'94 . 22,03,662 | 45,742 70°45 2,63,788 | 8,090 12*47 58,405 | 80,633 124°24 5,11,490 | 10,001 72,510 | 16,803 88,939 | 26,024 |

Steam-boat earnings for the week, Rs. 4,690.
 Do. do. to date, ,, 30,710.

FINANCIAL YEAR.

Approximate Statement of gross receipts.

| RECEIPT 16T1 | B FOR WEEK AUGUST 189 | ENDING | | rs por week en August 188 | | | PRIL 1890 TO 16 AUGUST 1890. | TH | | PRIL 1889 TO 17 AUGUST 1889. | | Total | Total |
|----------------------------|--------------------------|------------------------|----------------------------|------------------------------|------------------------|----------------------------|---------------------------------|---------------|----------------------------|---------------------------------|---------------------------------------|-------------------------|-------------------------|
| sean mileage worked. | Receipts, | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | | | Mean mileage worked. | Total receipts. | Per mile worked per week, | increase in 1890-91. | decrease in 1890-91. |
| 691 | Rs. 66,024 | Rs. 95'55 | 640 | Rs. 80,633 | Rs. | 663- | Rs. 17,41,812 | Rs. 133°26 | 649 | Rs. 18,27,347 | Rs. 141'79 | Rs | Rs. 85,533 |

(a) Excludes 16,553 passengers, being traffic common to B. and N.-W. and T. Railways. (b) Do. 76,743 maunds, do. do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 23rd August 1890, on 691 miles open.

| | COACHIN | g Trappic | | | | AND MINERAL. | Other carnin | | Towns or | | 4 | TRAIN-MILE | S RUN. |
|--|-----------------------|-----------------|--------|---------------------|----|---------------------------|-------------------------|----|--------------------|-------|--|-------------------|---------|
| | Number of passengers. | Coachi | | Weight carried. | | Receipts. | including steam-boat | 90 | Total ear | ings | Coaching. | Merchan- dise. | Total. |
| and the second | | Rs. | A. P. | Mos. | 8. | Rs. A. P. | Rs. A. 1 | P. | Rs. | A. P | A STATE OF THE PARTY OF THE PAR | | |
| Total traffic for the week Or per mile of railway For previous 6 weeks of half- | 73,082 105.76 | 29,794 43'12 | | 2,47,544 858'24 | | 30,586 0 0 44°26 0 0 | 7,910 0 11.45 0 | | 68,290 98'83 | 0 0 | | 11,667 | 24,352 |
| year | 495,933 | 1,92,606 | 0 0 | 16,74,390 | 0 | 1,87,352 0 0 | 41,409 0 | 0 | 4,21,367 | 0 0 | 75,035 | 80,438 | 155,491 |
| Total for 7 weeks | (a)569,014 | 2,22,400 | 0 0 | (6)19,21,934 | 0 | 2,17,938 0 0 | *49,319 0 | 0 | 4,89,657 | 0 0 | 87,738 | 92,105 | 179,843 |
| COMPARISON. Audited figures. | | | , , | | | | 204 | | | | To dome | | |
| Total for corresponding week of previous year (642 miles). Per mile of corresponding | 75,160 | 24,731 | 0 0 | 3,80,347 | 0 | 41,326 0 0 | 7,018 0 | 0 | 73,075 | 0 0 | 9,929 | 16,821 | 26,756 |
| week of previous year Total to corresponding date of previous year | 115°81 620,768 | 38*11 2,14,028 | 2567 | 586°05 25,84,009 | | 63.68 0 0 8,05,114 0 0 | | | 112.60 5,84,565 | LUIS. | | 1,15,680 | 198,099 |

[•] Steam-boat earnings for the week, Rs. 5,260.
Do. do. to date ,, 35,970.
FINANCIAL YEAR.

Approximate Statement of gross receipts.

| RECHIP- 23R | TS FOR WEEK D AUGUST 1 | ENDING 890. | RECEIT 24 | TS FOR WEEK TH AUGUST 18: | | | L RECEIPTS FRO PRIL 1890 TO 23 AUGUST 1890. | | | PRIL 1889 TO 2 AUGUST 1889. | ATH | Total | Total |
|----------------------------|---------------------------|------------------|----------------------------|------------------------------|------------------|----------------------------|---|---------------|----------------------------|--------------------------------|---------------------------|-------------------------|------------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean milenge worked. | Receipts. | Per mile worked. | Mean mileage worked. | | | Mean mileage worked. | Total receipts. | Per mile worked per week. | ingrease in 1890-91. | decrawe in 1890-91. |
| 691 | Bn. 68,290 | Rs. 98'83 | 640 | 73,075 | Rs. | 665 | Ra. 18,13,337 | Rs. 131'64 | 649 | Ra. 19,00,422 | Rs. 140°39 | Rs | Rs. 87,085 |

⁽a) Excludes 19,318 passengers, being traffic common to B. and N.-W. and T. Railways, (b) Do. 1,05,945 maunds, do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 30th August 1890, on 691 miles of

| A CONTRACTOR OF THE STREET | COACHING | TRAFFIC. | MERCHANDISE TRAI | AND MINERAL | Other earnings (estimated), | | TRAFFIC | TRAIN-MIL | RS RUN. |
|--|-----------------------|--------------------|---------------------|-------------------|--------------------------------------|-------------------|-----------|-------------------|---------|
| A Add to the second of | Number of passengers. | Coaching receipts. | Weight carried. | Receipts. | including steam-boat earnings. | Total earnings, | Coaching. | Merchan- dise. | Total |
| Total traffic for the week (on 691 | | Rs. | MDs. | Rs, | Rs. | Rs. | | | |
| or per mile of railway For previous 7 weeks of half- | 62.325 90°20 | 23.240 33.63 | 2,54,750 368 67 | 31,772 45*98 | 6,609 9.57 | 61,621 | 11,959 | 11,200 | 23,16 |
| year | 569,014 | 2,22,400 | 19,21,934 | 2,17,938 | 49,319 | 4,89,657 | | | ****** |
| Total for 8 weeks | (a)631,339 | 2,45,640 | (6) 21,76,684 | 2,49,710 | *55,928 | 5,5: 18 | 87,738 | 92,105 | 179,86 |
| Comparison. Audited figures. | | | | | | | ula is | | 270401 |
| Total for corresponding week of previous year, 649 miles open Per mile of railway correspond- ing week of previous year | 74,080 | 24,751 | 3,16,405 | 81,947 | 6,800 | 62,807 | 9,995 | 13,815 | 23,81 |
| otal to corresponding date of previous year | 694,848 | 2,88,779 | 487·53 29,00,414 | 48°15 8,86,86t | 16°49 72,832 | 96.78 6,47,372 | 92,434 | 129,475 | 221,90 |

Steam-boat earnings for the week, Rs. 4,960. Do. do. to date, ,, 49,930.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

| RECEIP? | TS POR WREK | ENDING 190. | | TS FOR WEEK ST AUGUST 18 | ST 1000. APRIL 18 | | | L RECEIPTS PROPRIED TO 31 AUGUST 1889. | M 1sr | | | | |
|----------------------------|-------------|------------------------|----------------------------|-----------------------------|-------------------|----------------------------|-----------------|--|----------------------------|-----------------|---------------------------------------|----------------------------------|----------------------------------|
| Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Receipts, | | Mean mileage worked. | Total receipts, | Per mile worked per week. | Mean mileage worked. | Total receipts. | Per mile worked per week. | Total increase in 1890-91. | Total decrease in 1890-91. |
| | Rs. | Rs. | | Rs. | Rs. | | Rs. | Rs. | | Ra. | Rs. | Rs. | Ra. |
| 691 | 61,621 | 89:18 | 649 | 62,807 | 96.78 | 666 | 18,74,958 | 129 65 | 649 | 19,63,026 | 138 -38 | | 88,068 |

(a) Excludes 22,083 passengers, being traffic common to Sengal and North-Western Railway.

(b) Do. 1,22,012 maunds, ditto ditto ditto.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS. COMBINED SYSTEM.

Approximate Return of Traffic for week ended 1st November 1890, on 691 miles

| | COACHING | TRAFFIC. | MERCHANDISI TR. | S AND MINERAL APPIC. | Other earnings | | TRAPPIC | TRAIN-MI | |
|---|-----------------------|--------------------|---------------------|----------------------|--------------------------------------|---------------------|--|----------|--------|
| | Number of passengers. | Coaching receipts. | Weight carried. | Receipts. | including steam-boat earnings. | Total earnings. | Coaching. | Merchan- | Total |
| Potal traffic for the week (on 691 | | Rs. | MDs. | Rs. | Rs. | Rs. | The state of the s | | 1 |
| miles open) or per mile of railway er previous 16 weeks of half- year | 86,700 96:53 | 29,130 42°15 | 3,53,680 510-89 | 45,010 65'14 | 10,020 14'60 | 84.160 121:79 | 12,386 | 14,765 | 27,15 |
| Total for 17 Weeks | 1,221,310 | 4,70,699 | 41,36,194 | 5,12,280 | 1,08,167 | 10,91,146 | 203,576 | 189,810 | 393,38 |
| COMPARISON, | -1 | 4,40,020 | 44,88,374 | 5,57,290 | *1,18,187 | 11,75,306 | 215,962 | 204,575 | 420,53 |
| Audited figures. Cotal for corresponding week of previous year, 549 miles open er mile of corresponding week | 83,162 | 32,582 | 2,00,241 | 24,122 | 10,516 | 67,220 | 10,530 | 10,917 | 21,44 |
| of previous year | 1,291,428 | 50°20 4,76,256 | 354·76 46,63,175 | 37°17 5,85,428 | 16°20 1,38,994 | 103°57 11,50,678 | 197,130 | 223,724 | 420,85 |

FINANCIAL YEAR.

* Ajodhya bridge earnings for the week, Rs. 190. Ditto ditto to date, ,, 4,650.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirke

| lsr | NOVEMBER I | ENDING 800. | RECEIPT | NOVEMBER | ENDING 1889. | | L RECEIPTS PROPERTY 1890 TO 1 NOVEMBER 1890 | ST | A RESTAURANT OF THE PARTY OF TH | APRIL 1889 TO D NOVEMBER 1 | Charles and the Control of the Contr | | |
|---------------------------|------------|------------------------|----------------------------|-----------|------------------------|----------------------------|--|---|--|-------------------------------|--|----------------------------------|----------------------------------|
| Mean mileage worked | Receipts. | Per mile worked. | Mean mileage worked. | Receipts. | Per mile worked. | Mean mileage worked. | Total receipts. | Participation of the Control of the | Mean | Total receipts | Per | Total increase in 1890-91. | Total decrease is 1890-91. |
| | Rs. | Rs. | | Rs. | Rs. | | Ra. | Rs. | | Ba. | Ra. | | |
| 691 | 84,160 | 181'79 | 649 | 67,220 | 193.67 | 673 | 24,98,986 | 120'89 | 540 | 24,66,331 | 123'15 | Ra. | |

30,575



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, NOVEMBER 26, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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REPORT ON THE STATE OF THE SALT MARKET FOR THE SECOND QUARTER OF 1890-91.

No. 830B, dated Calcutta, the 14th November 1890.

From-K. G. Gupta, Esc., Secretary to the Board of Revenue, L.P., To-The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the second quarter of 1890-91, comprising the months of July, August,

The Hon'BLE F. M. HALLIDAY. and September 1890.

2. The quantity of salt of every description cleared during the quarter under report amounted to 25,14,577 maunds 20 seers 8 chittacks, against 26,51,986 maunds 8 seers 5 chittacks in the previous quarter, and 23,98,512 maunds 30 seers 14 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 58,64,525-11, against Rs. 62,34,543-12 in the previous quarter, and Rs. 55,10,452-14 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

TABLE I.

| veur - Physik | | | 2 | Cuttack. | Pooree, | Balasore. |
|--|---------------------|-------|----|----------|----------------------|------------------|
| | 14 | | | | MDs. s. | MDs. s. |
| Balance at close of the last qua Manufactured or added during | rter the quarter | · ::: | = | ••••• | 81,882 0 59,964 0 | 1,570 0 990 0 |
| | | Total | | | 1,41,846 0 | 2,560 0 |
| Sales during the quarter Wastage | = - | = | :: | | 36,102 20 | 2 |
| designation and the | The delay | Total | | | 36,102 20 | - L |
| Balance at close of the quarter | | *** | | | 1,05,743 20 | 2,560 0 |

4. The total sale of excise salt during the quarter under review amounted to 36,102 maunds 20 seers, against 46,297 maunds in the previous quarter and 12,101 maunds in the corresponding quarter of the previous year.

12,101 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the Port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

TABLE II.

| | | | 1888 | -89. | 1889 | -90. | 1890- | 91. |
|---|-------|------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| but Two | | 100 | 2nd qu | arter. | 2nd qu | arter, | 2nd qua | rter. |
| N Mary | | 12.4 | Imported. | Cleared. | Imported. | Cleared. | Imported. | Cleared. |
| | | 1000 | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. |
| Liverpool pungah foreign kurkuteh ndian ditto | = | = | 23,42,554 2,49,885 1,81,559 | 20,31,956 2,93,473 1,45,398 | 14,67,169 2,29,083 1,6#,228 | 17,14,048 4,00,462 1,67,498 | 18,43,107 6,02,286 1,55,628 | 16,15,682 6,14,903 1,54,578 |
| CH W | Total | | 27,73,989 | 24,70,807 | 18,65,480 | 22,82,008 | 26,01,021 | 23,85,158 |

6. The following are the details of the Indian kurkutch salt shown in the above table:—

TABLE III.

| Man's | | | | 1888 | -89. | 1889 | -90. | 1890 | -91. |
|--------------------------------------|-------|-------|---------|-----------|----------|--------------------------|--------------------------|-----------------------|-------------------|
| | 1 | | | 2nd qu | arter. | 2nd qui | arter. | 2nd qua | rter. |
| | | | 1 | Imported. | Cleared. | Imported. | Cleared. | Imported. | Cleared. |
| Belgi | di la | alem. | and the | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. |
| ombay oconada ladras angoon | 2 | = | Ē | 1,81,550 | 1,45,369 | 1,58,932 9,796 500 | 1,57,202 9,796 500 | 1,59,830 2,798 | 1,51,775 2,798 |
| | | Total | | 1,81,550 | 1,45,898 | 1,69,228 | 1,67,498 | 1,55,628 | 1,54,578 |

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters:—

TABLE IV.

| WHERE STORED. | | Second quarter of 1889-90. | Third quarter of 1889-90. | Fourth quarter of 1889-90. | First quarter of 1890-91. | Second quarter of 1890-91. |
|--|-------|-------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|
| Australia Laboratoria | 100 | Mds, | Mds. | Mds. | Mds. | Mds, |
| Sulkea Government golaha Chittagong ditto ditto | | 23.55,265 1,42,880 | 17,41,840 67,687 | 22,11,943 2,21,633 | 19,60,547 99,605 | 21,64,395 83,574 |
| | Total | 24,98,145 | 18,00,427 | 24,33,676 | 20,60,152 | 22,47,969 |

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review, and the corresponding quarters of the previous two years, are shown in the table below:—

TABLE V.

| Pariod. | Vid Balikhal. | Viâ Sankrail. | Viâ Gewakhally. | Vid Kidderpore. | Vid Balliaghatta. | Vid Ruthtollah Ghåt. | By the East Indian Railway. | By the East- ern Bengal and South- Eastern Rail- ways or vid Chitpore, |
|---|----------------------------------|----------------------------------|----------------------------|--------------------------------|----------------------------------|----------------------------|-----------------------------------|---|
| 1960 | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. | Mds. |
| Becond quarter of 1888-89 Ditto of 1889-90 Ditto of 1890-91 | 4,88,371 4,49,757 4,09,395 | 1,56,372 1,41,318 1,47,065 | 45,293 40,912 53,182 | 1,23,110 85,625 1,11,075 | 3,24,979 3,77,037 3,73,488 | 5,090 2,803 1,527 | 7,36,777 8,13,672 6,85,609 | 2,57,988 - 1,95,487 3,05,482 |

9. The quantity of salt despatched by the East Indian Railway to

Mds. s. stations beyond Buxar during the quarter under

July ... 607 20 review amounted to 3,037 maunds 20 seers, as

August ... 1,215 0 noted in the margin, against 3,341 maunds 10 seers

September ... 1,215 0 in the previous quarter and 1,518 maunds 30 seers

Total ... 3,037 20 in the corresponding quarter of the previous year.

10. The shipments of Liverpool salt for the Port of Calcutta, according to published market reports, were as follow:—

| AND THE PARTY OF | | | Tons. |
|-----------------------|--------------|------|--------|
| July | To Law Yelly | site | 24,930 |
| August | | | 12,890 |
| September | | 10.0 | 23,840 |
| Statistical Control | | | |
| 1 - 1 - 1 - 1 - 1 - 1 | Total | | 61,660 |

TO THE REAL PROPERTY.

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

| 1518 | Prices on the I | | | | Prices on the 15th August | | Prices on the 31st August | | Prices on the 15th September | | Prices on the 30th September | |
|----------------------------|-----------------|----------------------------------|---|---------------------|--|---|---|---|---|---|---|--|
| 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | |
| Rs. | Ra. | Rs. | Rs. | Rs. | Rs, | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 92 61 58 70 62 | 50 50 50 | 88 61 58 70 62 62 | 84 49 52 51 | 58 70 | 77 47 55 | 99 58 70 | 72 44 56 | 98 58 60 | 78 46 56 | 98 58 65 | 77 46 56 43 60 | |
| | Rs. 92 61 58 70 | Rs. Rs | Rs. Rs. Rs. 92 81 88 61 55 56 58 70 50 70 62 62 62 55 62 | Rs. Rs. Rs. Rs. Rs. | Rs. Rs. Rs. Rs. Rs. Rs. Rs 92 81 88 84 88 61 58 56 58 49 58 70 50 70 52 70 62 62 55 62 51 62 | Rs. Rs. | Rs. Rs. | Rs. Rs. | Rs. | Rs. Rs. | Rs. Rs. | |

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Naraingunge during the quarter under review and the corresponding quarter or 1889-90:—

TABLE VII.

| med town less | a collection days when the | ADMITTED | INTO BOND. | CLEARED. | | |
|---------------|---|----------------------------------|-----------------------------------|---|--|--|
| Port. | DESCRIPTION OF SALT. | Second quarter of 18:9-90. | Secondi quarter of 1890-91. | Second quarter of 1889-90. | Second quarter of 1890-91. | |
| Chittagong | Liverpool pungah Burmah ditto Madras kurkuteh Bremen Liverpool pungah and Bremen salt | | MDS, S, 56,960 0 | MDS, 8, 60,087 23 0 5 0 15 44,055 0 | MDS. S. 51,080 0 12,072 0 48,484 11 | |
| | Total | . 55,256 0 | 58,960 0 | 1,04,143 8 | 91,636 11 | |

No transactions in sea-imported salt have been reported for the quarter from the Ports of Cuttack, Pooree, and Balasore.

averaging the risk time responded positions in the law in a

ing the primary autoped and in the lines

RESOLUTION REVIEWING THE REPORTS ON THE WORKING OF MUNICIPALITIES IN BENGAL DURING 1889-90.

MUNICIPAL DEPARTMENT-MUNICIPAL.

Calcutta, the 21st November, 1890.

RESOLUTION.

READ-

The reports from the several Commissioners of Divisions on the working of the Municipalities in Bengal (except Calcutta) during the year 1859-90.

Read again-

The Resolution reviewing the divisional reports on the working of Municipalities during the year 1888-89.

The following Resolution reviews the reports submitted by Commissioners

of Divisions on the working of municipalities during the year 1889-90.

2. Number of Municipalities.—The total number of municipalities in existence at the close of the year was 147 as in the preceding year. The municipalities of Assensole and of the Suburbs of Calcutta were abolished for reasons explained in paragraph 4 of last year's Resolution; and two new municipalities, namely Cossipore-Chitpore and Municktollah, comprising portions of the Suburban Municipality, were established during the year. Since the close of the year the Khagoul and Garwa manicipalities have been abolished.

The statement in Appendix A shows the date of establishment of each municipality in the province, the population within municipal limits, and the actual number of rate-payers in each. The average proportion of rate-payers to the whole population in the municipalities for which complete figures are

given was 17.9 per cent., against 17.85 of the previous year.

3. Elective System.—The system under which two-thirds of the total number of Commissioners fixed for each municipality are elected by the ratepayers was in force in all the municipalities except those named below :-

> Bettiah. Gurwa. Lohardugga. Chanduria. Jajpore. Nalchitty. Chogda. Jamui. Netrokona. Chyebassa. Jehanabad. Perozepore. Colgong. Jhalda. Raghunathpore. Cox's Bazar. Jhalokati. Roserah. Daltongunge. Julpigoree. Sitamarhi. Darjeeling. Kendrapara. Sonamuki. Daudnugger. Khoolna. Tikari. Debhatta. Lalgunge.

4. Results of elections held during the year .- The two newly-formed municipalities of Cossipore-Chitpore and Manicktollah having been allowed the franchise, the first general elections were held in them. Out of 3,026 and 1,507 registered voters in those towns, 944 and 822 persons respectively attended the poll and voted. The elections were warmly contested in several wards, and it is said that the people generally took a lively interest in the matter. Of 103 bye-elections held under section 27 to fill up vacancies in the ranks of Commissioners, 91 were conducted successfully; the remaining 12 failed owing to nominations of candidates not having been submitted by the electors, within the time prescribed by the rules. The largest attendance of voters at the poll was 70.7 of the total number of qualified voters. These minor elections, the details of which are furnished in the table in Appendix B, appear to have excited no particular interest in most cases

5. Constitution of Committees .- The following statement shows, division by division, the constitution of the Committees of the various municipalities during

the year:-

SUPPLEMENT TO THE CALCUTTA GAZETTE, NOVEMBER 26, 1890. 2363

| Division. | Nominated. | Elected. | Total. | Officials. | Non-officials. | Buropeans. | Natives of India, | Remarks. |
|-----------|--|--|---|--|--|--|---|---|
| Burdwan | 136 230 88 110 33 179 79 42 71 | 228 327 97 107 40 190 85 33 37 | 364 557 185 217 73 369 164 75 108 | 48 53 44 33 17 76 22 29 29 | 316 504 141 184 56 293 142 47 86 | 21 24 35 12 6 45 23 8 16 | \$43 533 150 205 67 824 141 67 92 | The professional occupation of Municipal Commissioners is not stated in all the Reports. This point is, however, one of much importance and full information will be given in future years. |
| Total | 968 | 1,144 | 2,112 | 343 | 1,769 | 1.90 | 1,922 | |

The following table shows the percentage of officials and Europeans to the total number of Commissioners during 1889-90 and the previous eight years:—

| | Officials. | Europeans. | | Officials. | Europeans. |
|---------|------------|------------|---------|------------|--------------|
| 1881-82 | 26.3 | 22.9 | 1886-87 | 15.6 | 9.1 |
| 1882-83 | 25.3 | 21.7 | 1887-88 | 16.2 | 9.4 |
| 1883-84 | 24.5 | 212 | 1888-89 | 16.0 | 8.9 |
| 1884-85 | 18.0 | 12.1 | 1889-90 | 16.1 | 90 |
| 1885-86 | 161 | 10.1 | | | 建设的 在 |

It is clear that, so far as the *personnel* of the Municipal Committees is concerned, full scope has been given to the principle of allowing the townspeople to manage their own affairs.

6. Meetings of Committees .- The largest number of meetings held by any municipality was 41 at Serampore with an Name of Municipality. Percentage of attendance. average attendance of 56.8 per cent. of the members. The highest average 91.8 Kandi 23 25 Debhatta 87.5 percentage of attendance was attained Cossipore-Chitpore ... 11 87.5 Colgoug Satkhira 15 86.3 in the municipalities noted in the margin. 84.1 ***

The following table shows the municipalities which held more than twenty meetings with the average percentage of attendance at each meeting:—

| DISTRICT | | Name of Municipa | Number of meetings. | Average per centage of attendance. | |
|---------------|-------------------|-------------------|---------------------------|--|------|
| Hooghly | | Serampore | | 41 | 56.8 |
| Howrah | Contract Contract | Bali | | 32 | 63.7 |
| Pooree | | Pooree | | 31 | 49 |
| Nuddea | | Santipore | PER | 28 | 40.8 |
| Patna | | Dinapore Nizamut | | 27 | 59.4 |
| Rajshahye | Photos | Nattore | | 27 | 46 |
| Nuddea | 100 | Coomarkholly | | 27 | 43.3 |
| Burdwan | | Burdwan | | 26 | 54.7 |
| 771 | 1 | Debhatta | | 25 | 87.5 |
| Khoolna | | Satkhira | | 25 | 84.1 |
| Furreedpore | | Madaripore | *** | 25 | 66.6 |
| Burdwan | | Dainhat | | 24 | 61.5 |
| Dacca | | Dacca | | 24 | 47.6 |
| Moorshedabad | | Kandi | | 23 | 91.8 |
| Maldah | | Old Maldah | | 23 | 35.8 |
| Mymensing | | Sherepore | | 23 | 32.7 |
| | BASID Y | Baranagore | | 22 | 70 |
| 24-Pergunnahs | | Joynagore | | 22 | 60.8 |
| Furreedpore | | Furreedpore | | 22 | 44.4 |
| Moorshedabad | | Jungipore | | 22 | 41.6 |
| Manbhoom | | Raghunathpore | THE SAC | 22 | 25.4 |
| 24-Pergunnahs | | North Barrackpore | | 21 | 57.7 |
| Mymensingh | | Nasirabad | | 21 | 56 |
| Howrah | \$500 M | Howrah | | 21 | 54.3 |
| Burdwan | | Cutwa | | 21 | 46.6 |
| Nuddea | | Ranaghat | | 21 | 44.6 |
| Tipperah | A | Comilla | | 21 | 43.3 |

The smallest number of meetings was held in the municipalities of Balasore and Jugdishpore, where the Commissioners met only once a quarter with an average percentage of attendance of 62.5 and 50 respectively.

Detailed information on the subject of the meetings held by the various municipalities is given in Appendix C. The attendance was on the whole satisfactory, and the statistics show that a large amount of time and trouble was gratuitously and unsparingly devoted by the Municipal Commissioners to the

discharge of their duties.

7. Municipal Benches.—The Municipal Benches in the province tried 16,604 cases of nuisance and breach of conservancy rules, in which 14,730 persons were convicted and 2,209 acquitted. The average amount of fines imposed on each offender varied from Rs. 4-2-8 in Jamalpore, in the Monghyr district, to Re. 0-2-1 in the Nuddea Municipality. The statement below shows the work done in detail:—

| Divisio | on. | Name of the Municipal Bench. | Number of cases tried. | Number of persons convicted. | Number of persons acquitted. | Number of persons remaining under trial at the close of the year. | Amount of fines inflicted. | Amount of fines realise | |
|-------------|-------|---------------------------------|------------------------|------------------------------------|------------------------------|--|----------------------------|--|----|
| may de | to/in | min to entress | 10027 | U-150 | E 5,6 12 st | PAT 124 | Rs. A. P. | Rs. A. | P. |
| | (| Burdwan | 1,073 | 921 | 138 | 18 | 401 10 0 | 362 0 | 0 |
| | | Culna | 119 | 102 | 17 | | 38 8 6 5 12 0 | | 6 |
| | | Deleber | 16 | 12 | 1 | 4 | 2 5 0 | | 0 |
| | | Raneegunge | 195 | 191 | 4 | | 68 8 0 | | 0 |
| | 1 | Hooghiy andChinsurah | 270 | 257 | 17 | | 459 12 0 | | 0 |
| | 1 | Serampore | 118 | 107 | 16 | 2 | 165 4 0 | | 0 |
| | | Utterpara | 86 | 90 | 1 | - 1 May 1 | 103 15 0 | Marie Control of the | 0 |
| Burdwan | | Bansberia | 88 | 72 | 16 | 4 1 202 | 27 0 0 | Particular Street, Str | 0 |
| | 1 | Baidyabati Bhudreswar | 163 | 155 | 6 5 | 2 | 239 5 0 103 10 0 | | 0 |
| | 1 | Kotrung | 20 | 101 | 1 | 13 | 23 0 0 | M.O. O | 0 |
| | 1 | Howrah | 2,682 | 2,359 | 190 | 7 | 6,050 15 0 | | 3 |
| | 1 | Bali | 204 | 217 | 32 | | 154 0 0 | | 0* |
| | - 21 | Midnapore | 386 | 318 | 105 | | 346 3 0 | 299 1 | 0 |
| | | Tumlook | 175 | 183 | 7 | | 92 9 0 | THE RESERVE AND ADDRESS OF THE PARTY OF THE | 0 |
| | | Ghattal | 40 | 44 | 8 | | 15 14 0 | | 0 |
| | | Chandrakona | 120 | 135 | 246 | | 120 3 0 | | 0 |
| | | Total | 5,885 | 5,295 | 564 | 46 | 8,418 0 6 | 7,760 11 | 9 |
| | r | North Dum-Dum | 91 | 91 | 3 | A | 89 8 0 | | 0 |
| | 1 | South ditto | 101 | 85 | 16 | | 163 8 0 | Field Harris Street, and Street, Street | 0 |
| | | Joynagore | 62 | 52 | 11 | *** | 50 0 0 | 1 THE R. P. LEWIS P. | 0 |
| | 230 | Goverdanga | 19 149 | 16 | 3 | | 20 6 0 | THE TAXABLE PARK OF TAXABLE ST | 0 |
| | 1 | Dainora | 240 | 130 226 | 8 21 | 15 | 114 6 0 168 12 0 | The COLUMN COTTO | 0 |
| | 1 | south Barrackpore | 150 | 133 | 32 | î | 203 0 0 | 4 Table - Car - 124 (5 - 7 31 Part 14 | 0 |
| | 1 59 | South Suburban | 209 | 124 | 85 | | 207 0 0 | THE RESERVE AND ADDRESS OF THE PARTY OF THE | 0 |
| Presidency | 3 | Baranagore | 98 | 72 | 27 | 3 | 42 4 0 | THE RESERVE OF THE PARTY OF THE | 0 |
| - residency | " | North Barrackpore | 294 | 257 | 55 | 9 | 261 10 0 | 261 10 | 0 |
| | 1 | Krishnaghur | 162 | 153 | 13 | 1 | 196 1 0 | | 0 |
| | | Nuddea | 239 | 233 | 6 | *** | 80 11 0 | | 0 |
| 1 | | Ranaghat Santipore | 218 | 183 | 14 | 2 | 51 1 0 138 12 0 | THE RESERVE AND ADDRESS OF THE PARTY OF THE | 0 |
| | 1 | Jessore | 211 | 153 | 34 | • | 138 12 0 211 12 6 | | 6 |
| | | Moheshpore | 48 | 64 | 5 | 18 | 42 10 0 | | 0 |
| | | Kotechandpore | 41 | 34 | 7 | | 62 9 3 | C. C | 3 |
| | (| Berhampore | 184 | 145 | 46 | 2 | 158 13 0 | | 0 |
| | | Total | 2,604 | 2,225 | 426 | 52 | 2,212 11 9 | 2,197 11 | 9 |
| Rajshahye | 5 | Nattore | 99 | 90 | 9 | | 86 0 0 | 86 0 | 0 |
| realenance | 5 | Sherepore | 75 | 64 | 11 | | 46 0 0 | 34 0 | |
| | | Total | 174 | 154 | 20 | | 1/2 0 0 | 120 0 | 0 |
| | - | Dacca | 407 | 357 | 66 | . 9 | 264 0 0 | 264 0 0 | 0 |
| Dacca |) | Naraingunge | 120 | 125 | 2 | 12551114031175355 | 228 3 0 | | 0 |
| 70.5 | 7 | Furreedpore | 24 | 36 | ī | 1 | 37 4 0 | | 0 |
| | | Burrisal | 30 | 27 | 5 | | 40 2 0 | | 0 |
| | | Total | 591 | 545 | 74 | 10 | 569 9 0 | 169 9 0 | 0 |
| Chittagong | | Chittagong | 88 | 54 | 47 | | 68 15 0 | 68 15 | 0 |

| Division. | Name of the Municipal Number of cases tried. | | persons | persons acquitted. | maining | Amount of fines inflicted. | Amount of fines realised. | |
|--------------|---|--|--|--|---------------------|--|---|--|
| Patna | Patna Barh Gya Daudnagar Arrah Mozufferpore Darbhenga Madhutani Roserah Chupra Revilgunge | 2,129 235 903 32 237 879 635 290 208 115 112 | 1,85a 211 708 7 186 795 749 340 161 80 145 | 209 24 191 26 101 154 10 11 44 35 21 | 2 4 | Rs. A F. 1,492 14 9 115 15 0 1,013 18 6 75 0 0 216 2 0 391 5 3 268 9 6 131 14 6 09 1 0 60 6 0 181 12 0 | Rs. A. P. 1,482 1z 6 115 15 0 1,073 5 0 75 0 0 216 2 0 391 5 3 268 9 6 131 14 6 109 1 6 60 6 0 181 12 0 | |
| | Total | 1,776 | 5,210 | 826 | 7 | 4,046 13 6 | 4,106 2 9 | |
| Bhagulpore { | Monghyr Jamalpore Bhagulpore Colgong Sahebgunge | 269 51 738 191 237 | 218 38 600 164 227 | 79 15 121 33 10 | 65 17 Nil | 738 6 6 158 8 0 420 13 2 85 14 6 192 9 0 | 788 6 6 158 8 0 420 13 3 77 9 0 192 9 0 | |
| | GRAND TOTAL | 16,604 | 14,780 | 2,209 | 197 | 17,044 4 6 | 16,411 0 0 | |

^{*} The excess of Rs. 59-7-6 represented arrear collections.

A Municipal Bench was established during the year at Tikari, but its working commenced from 19th March last. There were no Municipal Benches in any of the municipalities in the Chota Nagpore and Orissa Divisions.

8. Assessments.—The statement in Appendix D shows the mode of assessment prevailing in each municipality in the province, the rate at which the tax on holdings or on persons according to their circumstances and property within municipal limits was levied, and the result of any revision of assessment made during the year. The tax on holdings was in force in 36 municipalities, and was levied at rates below the maximum $(7\frac{1}{2} \text{ per cent. per annum on the annual value of holdings})$ in the following 13 places:—

| Name of Divisio | n. | Name of Municipa | ality | Rate o | f tax. |
|-----------------|-----|----------------------------|----------|--------|---|
| Burdwan | | Hooghly and C | hinsurah | | 61 |
| Presidency | | {Krishnaghur Ranaghat | | (| 3 |
| Rajshahye | ••• | Santipore Darjeeling Dacca | | ? | The legal maximum in these municipalities is 10 per cent. |
| Dacca | *** | Naraingunge | *** | 6 | |
| Patna | | Sewan | | 7 | |
| | | Monghyr Jamalpore | | 7 | |
| Bhagulpore | | ⟨ Bhagulpore | | [| |
| ent l | | Purneah Sahebgunge | | (| 31 |

In regard to the Burdwan Division the Commissioner remarks:—"The maximum rate of 7½ per cent. was levied in all the municipalities in which the tax on holdings was in force, with the exception of Hooghly and Chinsurah, where it was only 6½ per cent. This town has many sanitary wants, and the full rate might, I think, be levied with advantage to the health of the inhabitants. The people are exceedingly well off, and I see no reason why the rate should be lower in this town than in the others." This observation is applicable to most of the other municipalities specified in the above statement. In the Bhagulpore Division the rate is levied below the maximum in every place where a rate is imposed, and it seems that in both Bhagulpore and Monghyr it should be increased: it is satisfactory to see that in Sahebgunge, where the rate is the lowest in the province, it has been raised to 5 per cent. in the current year. In the Nuddea Municipalities, the rates are still unduly low. It is not too much to say that in all municipal towns in Bengal there is a crying want of funds to meet expenditure which is gradually being

forced upon the Commissioners, especially in the direction of improved sanitation. It is equally true that, whether the taxation is based on assessment of holdings, or (as Appendix D will show is more usually the case) on persons according to their circumstances and property, the present rate of taxation is exceedingly low and far from oppressive on the rate-payers. The tax on persons varies at rates from 8 annas to one rupee per cent. on the estimated income of the The average incidence of municipal taxation throughout Bengal (excluding Calcutta) during the past year was only 11 annas and 11 pies per head of the population, and in no less than 67 municipalities the incidence is so low that it amounts to 8 annas or less per head. The lowest place in the list is taken by Lalgunge in Mozufferpore, where the rate is only two annas and seven pies. By way of comparison it may be noted—the figures are taken for the year 1886-87—that the incidence per head of municipal taxation proper (exclusive of Presidency towns) is in Bombay Re. 1-4-5 and in the Punjab Re. 1-2-6. In Madras it is annas 11-11 and in the North-Western Provinces annas 11-1. These figures show how very moderate is the incidence of municipal taxation in India generally; and especially that it is low in Bengal, where the wealth of the people and their standard of comfort are greater than in other provinces. It is obvious therefore that there is scope for some increase in municipal taxation; and unless there is such an increase, it is impossible that reforms can be undertaken. Under sections 88 and 97 of the law the period during which an assessment once made shall continue in force should be three years only. The object of this provision is that the assessment of holdings and of the tax upon persons should be revised periodically as the prosperity of towns increases; but in many cases it is to be feared that the law is overlooked, and the old assessment allowed to continue unchanged for too long a period. As an instance of this neglect, the Lieutenant-Governor observes that a general revision of assessment was made during the past year in the Comilla Municipality after so long a period as twelve years. On the other hand, His Honour recognises the signs of more vigorous municipal administration in several important places, and he is glad to take this opportunity of intimating to Municipal Commissioners and the local executive authorities that they will always receive the support of Government in the discharge of the responsible duty of revising assessments. The duty is unfortunately a very invidious one, and in its fulfilment the Commissioners must often, as the reports of the past year sufficiently indicate, expect to incur serious unpopularity and obstruction; but the Lieutenant-Governor has no doubt that as a body they will not shrink from it on this account. The enforcement of proper municipal taxation in order to accomplish municipal improvements, and especially sanitary reform, of which all the towns in Bengal are so greatly in need, is one of of the most distinguishing marks of efficiency and aptitude in local self-

9. During the past year assessments were revised either generally or partially in 43 municipalities. The revision resulted in a loss of income in five places, viz., Burdwan (Rs. 469), Raneegunge (Rs. 142), Ramjibanpore (Rs. 7), Tikari (Rs. 1,166), and Behar. In the Durbhunga Municipality the assessment was revised, and, with the sanction of Government, the tax on persons was substituted for the rate on holdings. The tax is fixed at the rate of 1 per cent., and all persons having an income of less than Rs. 6 a month have been exempted. The net increase has not yet been determined, but it was expected to be about Rs. 6,000. The Lieutenant-Governor trusts that this expectation will be realised; but he is concerned to notice an observation in the Commissioner's General Administration Report, that the income of the municipality, "instead of increasing as was estimated, has fallen off, and when the Maharajah resumes possession of his market, which has been decreed to him by order of the Civil Court, there will be a further reduction." The reason of this apparent failure is not explained, but it is presumed that it is due to the opposition of the rate-payers, and is temporary only. Under somewhat similar circumstances the amount of increase obtained by revision of assessments in the Rampore Beauleah Municipality is reported to have been Rs. 2,042. The rate of tax on income of persons was raised from 8 to 12 annas per cent., and is therefore still very low, but the effect of the revision is thus described by the Chairman in his report:-"A hue and cry was raised, in which those whose

assessments had not been increased, nay, even those who had been exempted from assessment, joined. The municipal office was literally beseiged with objection petitions. A memorial was sent to His Honour the Lieutenant-Governor, complaining against the enhancement. A party of men, who affected to pose as friends of the poor, but who really had at heart some grudge against the municipality, actively set about rousing the people against it under this colourable pretext. For nearly two months there was scarcely any collection of house-tax. Everybody refused to pay. It was a time of serious trial of the Municipal Commissioners. By a policy of conciliation and firmness, and by promptly deciding the objections, order was restored." In Santipore, Purulia, Chupra, Monghyr, Cuttack, and Comillah, revisions of assessment led to increase of taxation unaccompanied apparently by any administrative difficulty. But in the petty municipality of Jugdishpore, in the Shahabad district, where the revision resulted only in an increase of Rs. 100 in the income, dissensions rose so high that a criminal case was instituted by one Municipal Commissioner against another, and some of the rate-payers who had sided with him, for obstructing him as he was returning from the municipal office after deciding some objections against enhanced assessment, and for threatening to kill him in case the tax was increased. The accused were convicted and sentenced to pay fines, and the sentence was upheld in appeal. A case even more scandalous than this occurred in the Tikari Municipality, where the Chairman was violently assaulted at his house by a gang of hired lattials instigated, according to common report, by an opponent on the Municipal Board, and the Vice-Chairman, who was conspicuous in opposition, was removed from his post.

The year's record shows indeed that the path of duty is strewn with difficulties, which can only be overcome by honest perseverance, consistency, and firmness; but it may be expected that as experience is gained in the benefits derived from municipal improvement, the attitude of the rate-payers, as well as of the more retrograde and obstructive section of Municipal Commissioners, will become, as it has in other portions of the world, more tolerant of necessary

taxation.

10. Fresh imposts levied during the year.—The provisions of the Act regarding the levying of a tax upon the annual value of holdings were extended during the year to the new municipalities of Cossipore-Chitpore, Manicktolla, and South Suburbs. Sanction was also accorded to the levy by the Commissioners of the Kurseong, Serampore, Bali, English Bazar, and Khoolna municipalities of fees for the cleansing of private latrines within portions, or entire limits, of the respective municipalities.

11. Extension of various provisions of the Municipal Act and Bye-laws sanctioned during the year.—The conservancy and other provisions of Part VI of the Act, or portions of them, were extended during the year to Berhampore, Joynugger, Nasirabad, Naihatty, Jungipore, Kishoregunge, English Bazar,

Dinapore Nizamut, and Comillah.

Part IX of the Act, which regulates the construction and cleansing of latrines, was extended to Serampore (Mahesh and Rishra and Connagore wards), Bali (excepting the villages of Belur and Malipanchghara), English Bazar, Khoolna, and a portion of Dinagepore.

Part X. which contains provisions for the regulation of markets, was extended to Soory, Bhagulpore, Bhabuah, and Lalbagh or City Moorshedabad.

Bye-laws were framed by the Commissioners of the following municipalities under section 350 of the Act, and confirmed by Government:—

Dinagepore.
Purulia.
Nasirabad.
Cuttack.
Sherepore (district Mymensingh).
Darjeeling.

Jamui.
Netrokona.
Gya
Raghunathpore.
Kishoregunge.
Chupra.
Burrisal.

Bazitpore Comillah. Bhagulpore. Lalbagh. Kurseong. Lohardugga. Furreedpore.

Rules for the protection of wild birds and game were framed by the Darjeeling and Cuttack Municipalities under Act XX of 1887, and confirmed by the Local Government.

12. Income and expenditure.—The following table compares the opening balances, income, expenditure and closing balances of municipalities, division by division, for the year 1889-90, and those of the preceding year:—

| Division | Opening balance. | | balanco. | Income dur | Income during the year. | | Total funds available for expen- diture. | | penditure. | Closing balance. | |
|---------------|------------------|----------|----------|------------|-------------------------|-----------|--|-----------|------------|------------------|----------|
| | | 1888-89. | 1889-90. | 1888-89, | 1889-90. | 1888-89. | 1889-90. | 1888-89. | 1889-90, | 1888-89. | 1889-90. |
| + | | Rs. | Rs. | Rs. | Rs. | Rs, | Rs. | Rs. | Rs. | Rs. | . Rs. |
| Burdwan | *** | 90,908 | 82,947 | 6,33,367 | 6,41,058 | 7,24,275 | 7,24,005 | 6,41,243 | 6,56,816 | 83,032 | 67,189 |
| Presidency | | 1,24,240 | 56,041 | 9,43,036 | 5,12,323 | 10,67,276 | 5,68,364 | 9,46,493 | 4,93,493 | 1,18,083 | 74,871 |
| Rajshahye | 202 | 50,408 | 33,105 | 2,75,876 | 2,76,258 | 3,26,284 | 3,09,363 | 2,93,179 | 2,71,463 | 33,105 | 37,900 |
| Dacca | | 31,972 | 24,634 | 2,88,337 | 3,34,230 | 3,20,309 | 3,58,864 | 2,95,675 | 3,04,875 | 24,634 | 53,989 |
| Chittagong | | 6,841 | 3,285 | 73,850 | 67,712 | 80,691 | 70,997 | 76,861 | 65,601 | 3,288 | 5,396 |
| Patna a | | 47,803 | 49,344 | 4,43,462 | 4,82,101 | 4,91,265 | 5,81,445 | 4,39,275 | 4,50,867 | 51,990 | 80,578 |
| Bhagulpore | | 40,363 | 84,535 | 2,48,468 | 1,83,515 | 2,88,831 | 2,68,050 | 2,04,296 | 2,40,206 | 84,535 | 27,448 |
| Orlssa | | 7,022 | 1,868 | 89,521 | 86,786 | 96,543 | 88,654 | 94,735 | 85,020 | 1,868 | 3,634 |
| Chota Nagpore | | 8,031 | 10,643 | 53,847 | 63,519 | 61,878 | 74,162 | 51,206 | 63,127 | 10,672 | 11,035 |
| Total | | 4,07,588 | 3,46,402 | 30,49,764 | 26,47,502 | 34,57,352 | 29,93,904 | 30,42,963 | 26,31,468 | 4,11,207 | 3,62,436 |

The large discrepancy between the closing balance of 1888-89 of the municipalities in the Presidency Division and the opening balance for 1889-90, is due to the exclusion from the current accounts of the closing balance of Rs. 62,042 of the late municipality of the Suburbs of Calcutta. The small discrepancies in the other divisions have been explained by the local officers.

13. Income.—The total income of the municipalities in Bengal under Act III (B.C.) of 1884 amounted during the year to Rs. 26,47,502, against Rs. 30,49,764 of the previous year. This large apparent falling off is due to the dismemberment of the Suburban Municipality, and as the entire area included within that municipality has not been excluded from the operation of Act III (B.C.) of 1884, no satisfactory comparison can be made between the municipal accounts of 1889-90 and of previous years. Excluding, however, the income from the municipalities in the Presidency Division, the total income of all other municipalities shows an increase of Rs. 42,499 over the receipts of 1888-89. This increase is too small to be considered satisfactory, and is much

Taxation proper. less than that of previous years The income from taxation proper is shown, division by division (excluding the Presidency), in the following statement:—

| | Burdwan. | Rajshahye. | Dacca. | Chittagong. | Patna. | Bhagul- pore. | Orissa. | Chota Nagpore. | Total. |
|--------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|-------------------------------|
| 1888-89 1889-90 | Rs. 5,00,183 5,07,501 | Rs. 1,60,881 1,68,252 | Rs. 2,32,558 2,23,819 | Rs. 51,325 45,148 | Rs. 3,22,083 8,58,813 | Rs. 1,38,310 1,40,136 | Rs. 54,712 65,884 | Rs. 30,538 38,541 | Rs. 14,90,590 15,48,094 |
| Increase or de- | +7,318 | +7,371 | -8,739 | -6,177 | + 36,730 | +1,826 | + 11,172 | +8,003 | +57,504 |

The general result shows some improvement, but it is not so marked as might be expected, looking to the low rate of taxation which prevails, and the urgent need that exists everywhere for increased income to meet necessary expenditure. In regard to the Dacca Division, it is explained that the net decrease is to a large extent nominal, as the collections in 1888-89 included arrears of previous years, and were therefore considerably in excess of the normal realisations. In the case of the Chittagong Municipality, it is stated that a decrease of about Rs. 8,600 in the collections is due partly to the same cause as in the Dacca Division, and partly to the fact that for nearly three months the sircars had to attend on the auditor who was examining the accounts, and that in

consequence the collections were smaller than ought to have been made. excuses appear to the Lieutenant-Governor to be insufficient. It is satisfactory that the arrears have been liquidated, but they ought not to have been allowed to accrue. In any case it is to be regretted that the total gross collections show a falling off. It is a too common defect in Bengal municipalities that the executive is in arrear with its collections and it has been lately pointed out in a circular of Government that far greater promptitude must be insisted on in the collection or remission of taxes. Not more than one complete year of arrears should in any case be allowed. Municipalities which, like Ranchi and Kurseong, work in a business-like manner never have more than two quarters' arrears, and very often not more than one; and if municipalities in general avail themselves of the means provided in sections 120 to 129 of the Act, there is no reason why collections should ever be allowed to fall more than 12 months into arrear. As a matter of fact, in many municipalities the accounts are four or five years in arrear, and whenever this is the case it affords the clearest evidence of executive inefficiency.

14. The statement in Appendix E shows the details of income under each head, division by division, as compared with that of the year 1888-89. The total receipts from the municipalities in the eight divisions show an

increase under the following heads :-

| Heads of Revenue. | | | | | Amount of increase. |
|---------------------------|------|--|-----|----------|---------------------|
| Taxation- | | | | | Rs. |
| Conservancy cess | | 1 | | | 29,277 |
| License on trades | | | | | 7,231 |
| Tax on persons according | to | their circumstances | and | property | 10,039 |
| Tax on houses and lands | | A STATE OF THE STA | *** | | |
| Tax on vehicles and anin | | *** | *** | *** | 6,654 |
| Tolls on roads and at fer | ries | | *** | | 3,424 |

On the other hand, there was a decrease under major head "Miscellaneous" of

15. Conservancy Cess.—A portion of the increase under this head is only apparent, being due to the proper classification of the receipts, and a sum of Rs. 10,437 thus appears under this head against the Patna Municipality and Rs. 7,798 against the municipality of Pooree. The tax was levied for the first time in the municipalities of Bogra (Rs. 1,605), Kurseong (Rs. 870), and Cuttack (Rs. 1,032). There was an increase of income, as compared with 1888-89, of Rs. 2,901 in the Midnapore Municipality, Rs. 1,982 in Rungpore, Rs. 1,777 in Serampore, and Rs. 1,739 in Monghyr. No explanation has been given of the decrease in Howrah, which amounted to Rs. 11,832.

16. License on trades.—The figures under this head are also affected by new classification. The increase in the Howrah Municipality amounted to

Rs. 1,111.

17. Tax on persons according to their circumstances and property, and tax on houses and lands.—These two items have to be reviewed together as the receipts

| Name of Municipality. Dinapore Nizamut Kharar Lohardugga Daltongunge | 3,274 1,897 | were not accurately classified in the previous year. Deducting the income of Rs. 15,442 from the new municipalities noted in the margin, there was actually a falling off of Rs. 4,603 during the year, which was distributed among the Burdwan, Dacca, Chittagong, |
|---|----------------|---|
| Total | 15,442 | and Bhagulpore Divisions. There was a large increase of Rs. 3,408 in the Chota Nagpore Division, |

excluding the income from the new municipalities, with small increases in the Patna, Orissa, and Rajshahye Divisions. The increase of income was largest in Midnapore (Rs. 3,328), Patna (Rs. 3,032), Hooghly (Rs. 1,978), Gya (Rs. 1,739), Purulia (Rs. 1,262); and there was a falling off in Dacca (Rs. 4,738), Chittagong (Rs. 8,870), Howrah (Rs. 2,774), Bhagulpore (Rs. 2,590), Revilgunge (Rs. 1,974).

18. Tax on vehicles and animals.—The main increase was in the Patna Division, where it amounted to Rs. 6,128, of which Rs. 3,618 occurred in the Gya Municipality. There was also a large increase of Rs. 4,122 in the municipality of Baranagore in the 24-Pergunnahs, and Rs. 3,211 in Howrah. Midnapore

shows a falling off of Rs. 1,983.

19. Tolls on roads and at ferries.—No tolls are levied on any roads in any municipality in Bengal. The item therefore refers only to income from ferries. The increase occurred mainly in the Patna Division (Rs 6,980), Chittagong (Rs. 1,700), and Orissa (Rs. 1,121). The Burdwan and Dacca Divisions show a falling off of Rs. 2,982 and Rs. 3,404 respectively. The accounts of the Mozufferpore Municipality show an increase of Rs. 6,670, due to the Victoria Bridge having been damaged by the flood and rendered unfit for traffic. The Chittagong Municipality shows an increase of Rs. 1,468, Cuttack of Rs. 2,386, Balasore of Rs. 1,265, and Lalbagh of Rs. 905.

The decrease in the Burdwan Division occurred in all the municipalities except Utterpara, Baidyabati, and Burdwan, where there was an increase. It was most marked in Hooghly (Rs. 1,398) and Serampore (Rs. 1,245). The decrease, amounting to Rs. 3,150, in the Dacca Municipality is attributed to a change in the system of accounts under which the advance collections have been credited to "Deposits" instead of under "Tolls," and this explanation

no doubt accounts for the decrease in other places.

20. The receipts from municipal fines show a falling off from Rs. 32,028 to Rs. 29,992.

21 Water-rates are levied only in Burdwan and Darjeeling. The collec-

tions in both places show a small increase, as noted in 1888-89. 1889-90. the margin. The rate at Burdwan was levied at 41 Rs. 13,207 Rs. 13,003 per cent. as in the preceding year, but the Lieutenant-Burdwan ...10,205 10,909 Darjeeling Governor is glad to observe that, with reference to the necessity of extending the supply of filtered 24,116 23,208 water to all parts of the town, the Municipal Commis-

sioners have raised the rate to 5 per cent. for the current year. The rate at Darjeeling is $2\frac{1}{2}$ per cent. only, and the increase is due to the imposition of the rate for the first time at Goompahar. No water rate is yet levied in Bhagulpore, but it is, as the Commissioner points out, absolutely necessary either to levy a special rate or to increase the ordinary rate on holdings, if the much-needed extension of the water-works is to be carried out. In Mymensingh and Dacca the munificence of Raja Surjya Kant Acharjya Bahadur and of Nawab Sir Abdul Ghunny, K C.S.L., has rendered the imposition of a water-rate unnecessary.

22. The grants made to municipalities from Provincial or Local Funds during the year are detailed below:—

| Name of munici | pality. | Amount of grant. | From what fund and for what purpose sanctioned. | | | | |
|----------------|---------|------------------|--|--|--|--|--|
| | | Rs. | matter of the compared to be being the party of | | | | |
| Burdwan | | 1,015 | From Government as grant-in-aid to schools main- tained by the municipality. | | | | |
| Bankoora | | 1,000 | From the District Fund towards the cost of mainte- nance of the charitable dispensary and for medical aid to mofussil people. | | | | |
| | 1 | 6,965 | From Government for maintenance of the College and Collegiate School. | | | | |
| Milmonore | 1 | 143 | From Government for the Hindu Girls' School. | | | | |
| Midnapore |) | 485 | From the Mohsin Fund for the part schooling-fee of Mahomedan boys of the Collegiate School. | | | | |
| | l | 240 | From the District Board towards the support of the Charitable Dispensary. | | | | |
| Tumlook | *** | 60 | Ditto ditto. | | | | |
| Chandrakona | | 60 | Ditto ditto. | | | | |
| Ramjibanpore | *** | 60 | Ditto ditto. | | | | |
| Khirpai | | 120 | Ditto ditto | | | | |
| Khooina | | 1,000 | From Government for the maintenance of certain roads placed under the charge of the municipality. | | | | |
| Lalbagh | | 3,340 | From Government on behalf of the Nizamut for the conservancy of the town, | | | | |
| Darjeeling | { | 6,484 | From Government for the maintenance of certain Government roads within the municipality. | | | | |
| | | 1,050 | From the Darjeeling Improvement Fund for the repayment of the water-works loau and for the working of the Porters and Dandiwallas Act. | | | | |

| Name of municipality. | Amount of grant. | From what fund and for what purpose sanctioned. | | | | |
|-----------------------|------------------|--|--|--|--|--|
| | Rs. | | | | | |
| Rampore Beauleah | 1,386 | From the Prosunno Nath Roy Fund for the mainte- nance of the local charitable dispensary. | | | | |
| Nattore | 1,400 | Ditto ditto. | | | | |
| Serajgunge | 250 | From the District Fund for the repairs and extension of the dispensary building. | | | | |
| Burisal | 800 | From the District Fund for the maintenance of the dispensary. | | | | |
| Nasirabad | 1,000 | From Government for the support of the charitable dispensary and the school | | | | |
| Sherpore | 311 (| From Local Fund. (Purpose not stated.) | | | | |
| Kishoregunge | 984 | | | | | |
| Patna | 22,725 | From the Wahabee Fund to meet the preliminary expenses for a drainage and water-supply scheme. | | | | |
| Sasseram | 1,200 | From the Sasseram Endowment Fund for the support of the Sasseram Dispensary. | | | | |
| Bhagulpore | 700 | From the District Fund for the maintenance of the dispensary. | | | | |
| Deoghur | 904 | Rs. 300 from the Pilgrims' Lodging-house Fund for general improvement and street-lighting. Details of Rs. 600 have not been given. | | | | |

The Lieutenant-Governor notices with satisfaction the following gifts of money or land, and works of public utility executed, by private individuals:—Rs. 3,000 out of Rs. 6,300 promised by Baboo Kali Krishna Tagore of Calcutta for metalling a road in the Baranagore Municipality was received by the municipality during the year. In Santipore a large tank was excavated, at a cost of Rs. 3,000, by Rai Ram Kissen Mukerjee Sahib, and another tank by Goondi Moyra, at a cost of Rs. 1,200, for the benefit of the inhabitants generally. The Nawab Bahadoor of Moorshedabad and his grandmother, Nawab Raisannessa Begum Shaheba, contributed Rs. 1,500 and Rs. 500 respectively towards protective works to save the people of the town from floods. In the South Barrackpore Municipality Baboo Behary Lal Pyne made a gift of Rs. 1,000 for the purpose of establishing a public burning-ghât at Sukchar. In the Soory Municipality Raja Ram Ranjan Chakravarty, Bahadoor, of Hetampore, made a donation of Rs. 1,000 towards the support of the indoor ward of the local charitable dispensary. A donation of Rs. 5,000 was made to the Rampore Beauleah Municipality by the Dighapattia Wards' Estate, in commemoration of the marriage of the two elder wards, to be expended on some work of public utility. It has been decided that the money should be spent on the construction of an underground masonry drainage channel for the most insanitary portion of the town. Another gift of Rs. 925 was made to this municipality by Baboo Girish Chandra Dutta, zemindar of Goalkandi, for the excavation of a tank. The Rungpore Municipality received from Raja Govind Lal Roy a gift of a plot of land for public burial purposes. In Furreedpore a sum of Rs. 1,391 was formally made over by the local Jubilee Committee and credited to the Municipal Fund for excavating a tank. Mir Ali Ahmed Chowdhury made a gift of Rs. 1,814 to the Burrisal Municipality for the construction of a cross road connecting the Katpatti road with the Police Line road and a pucca ghat on the east bank of the Police Line tank. Baboo Bishnu Perkash Narain Singh, of Madhubani in Chumparun, contributed a sum of Rs. 6,600 to the municipality for the construction of a serai, of a building for the municipal middle English and vernacular school, and of a municipal garden. In Bettiah, the Maharaja gave a plot of land for the site of a slaughter house and a public latrine. At Chaibassa Colonel Samuells, the late Deputy Commissioner of Singbhoom, made a donation of Rs. 1,100 for clearing the lake near which the town stands and for repairing the bathing-ghât on it.

24. Expenditure.—The total municipal expenditure of the province was Rs. 26,77,511 during 1890-91, against Rs. 30,42,900 in the preceding year, and the year under report closed with a balance of Rs. 3,16,393, against Rs. 4,14,654 in 1888-89. The following comparative statement shows the percentage of the

municipal income spent in each division under each of the principal heads of expenditure during the last two years:—

| NAME OF DIVISION. | | Income the y | | General establishment. | | Public safety. Pr | | Public health. | | Public instruction. | | Public convenience. | |
|---|---|---|---|---|--|--|---|---|---|---|--|--|---|
| NAME OF DIVISION. | 1 | 1888-89. | 1889-90. | 1888-89. | 1889-90. | 1888-89, | 1889-90. | 1888-89. | 1889-90. | 1888-89. | 1889-90. | 1888-89. | 1889-90 |
| Presidency Rajshahye Dacca Chittagong Patna Bhagulpore Orissa | | Rs. 6,33,367 9,43,036 2,75,876 2,88,337 73,850 4,43,470 2,48,468 89,521 53,847 | Rs. 6,41,058 5,12,323 2,76,258 8,34,280 67,712 4,82,101 1,83,515 86,786 63,519 | 10'23 10'18 14'48 10'91 9'64 12:84 8'7 11'05 13'8 | 10°38 12°08 14°37 8°87 10°91 12°2 12°76 12°48 14°3 | 10:31 12:46 3:67 8:73 3:49 5:49 1:31 5:35 1:67 | 8'02 7'93 8'95 8'22 3'43 4'9 2'1 5'99 1'3 | 44.7 87.58 53.11 54.45 46.85 48.25 42.37 51.4 50.16 | 47 89 37:67 46:78 55:73 47:53 48:3 79:42 50:09 56:5 | 6.04 2.77 3.68 3.34 17.32 3.71 2.48 3.98 3.15 | 6°21 4°15 3°03 2°69 9°78 8°6 3°32 4°08 2°9 | 19°35 26°03 15°13 22°12 19°5 20°18 20°19 25°29 15°79 | 17:21 24:75 15:76 17:39 19:66 23:3 23:37 18:48 13:6 |
| Average . | [| *** | | 11:31 | 11.61 | 5.27 | 5'74 | 47'65 | 48 94 | 4.94 | 4'31 | 20.39 | 19.66 |

25. Here also the fact that the entire area of the late Suburban Municipality has not been excluded from the operation of Act III (B.C.) of 1884 prevents the institution of any accurate comparison between the accounts of 1889-90 and those of the previous year. The statement in Appendix F shows the details of expenditure under each head, division by division. The largest expenditure is incurred on conservancy (Rs. 4,69,867), public works including maintanance and repairs of streets (Rs. 4,57,191), general establishment (Rs. 3,07,495), medical institutions (Rs. 2,30,241), and road-cleaning establishment (Rs. 1,92,741). The chief differences in expenditure, as compared with that of the year 1888-89, in the eight divisions (exceluding the Presidency Division) are the following:—

| Heads of E | Alam | Amount of increase. | | | |
|-------------------------|------------------|---------------------|--|--------|---------------------|
| | ter Europe | | | | Rs. |
| General establishment | , including coll | ection el | narges | *** | 6,124 |
| Establishment and ap | | | | *** | 4,491 |
| Street lighting | and the same | | Service Allegate | | 6,198 |
| Buildings and other w | orks | | To the Printer | | 12,938 |
| Maintenance of medic | al institutions | | ENGINEER VIEW | *** | 5,034 |
| Water-works | | | the free year | | 49,984 |
| Road watering | | | 77 | | 4,554 |
| Conservancy and road | -cleaning establ | lishment | 1000 | | 10,693 |
| Other measures (esta | blishments for | market | s, slaughter-h | ouses, | |
| &0.) | | *** | | 7 | 13,851 |
| Survey of lands | | *** | | | 10,707 |
| | Deo | rease. | | | |
| | | nue / m | Grand Stark | | Amount of decrease. |
| | | | | | Rs. |
| Repairs (to markets, d | ispensaries, &c | .) | Taran para il la | ••• | 7,164 |
| Drainage works | | *** | | | 4,070 |
| Public instruction | | | | *** | 5,741 |
| Public works (establish | ment, new wo | rks and | repairs) | - | 27,835 |

Name
of Division.

Percentages.

Percentages

Burdwan lished municipalities which came into operation Rajshahye 143 during the year, there was on the whole a net in-Dacca 8.8 Chittagong 10.9 crease of Rs. 3,102 in the eight divisions taken 12·2 12·7 Patna together. The percentage of charges under this Bhagulpore head to the total income of the year in each division Chota Nagpore is shown in the margin. It is evident that no

standard is followed by the different municipalities in fixing the scale or pay of their establishments, and although for obvious reasons one fixed scale cannot conveniently be employed in all parts of the province, it is incumbent on the Commissioners to try and restrict the expenditure on this item as much as

possible. The Lieutenant-Governor desires to take this opportunity to invite attention to the following remarks recorded on this subject by the Commissioner of the Burdwan Division:—

"The examination of the budgets of the municipalities in this Division for the current year brought to light a marked tendency on the part of Municipal Commissioners to give occasional increases of salary to members of the establishments, instead of laying down a fixed scale (with periodical increases, if necessary) and adhering to it. This practice is one which should, in my opinion, be consistently and firmly discouraged, as being unfair to the tax-payers and demoralizing to the recipients. The funds of all the municipalities are very limited in comparison with their wants, and any increase allowed to establishments must necessarily decrease, pro tanto, the surplus available for works of general utility. In most cases the proposed increase was disallowed, and the Municipal Commissioners were asked to consider what their requirements were as regards the strength and pay of their establishments, to lay down a scale once for all, and to adhere to it for the future. The spectacle of a municipal subordinate canvassing the Commissioners to vote for an increase to his pay (not fixed by any scale) is not one that is consistent with a proper discharge of his duties."

These observations of Mr. Toynbee are very pertinent, and should be put into practical application in the case of all municipalities.

27. Street lighting.—Fifty-nine municipalities, distributed in the divisions

| Name of Divisi | on. | in | which | Iunicips there as et lamps | e |
|----------------|-----|-------|-----------|----------------------------------|---|
| Burdwan | | 123 (| | 12 | |
| Presidency | | 450 | *** | 21 | |
| Dacea | | A | | 3 | |
| Chittagong | | | | 1 | |
| Patna | | | | 8 | |
| Bhagulpore | | 30 | | 4 | |
| Orissa | | | | 2 | |
| Chota Nagpore | | *** | | 8 | |
| - Bross | 100 | | | | |
| | | Total | C. French | 59 | |

noted in the margin, incur no expenditure on this item. In the Rajshahye Division alone all the municipalities have made some attempt at lighting the streets, however inadequate the results may be. Year after year the Inspector-General of Police brings to the notice of Government the disadvantage at which the Town Police have to work owing to the streets in municipal towns being insufficiently lighted or not lighted at all, and there

is no doubt that crime is greatly facilitated and much difficulty caused to

efficient police supervision by this omission.

28. Maintenance of hospitals and dispensaries and vaccination.—The statement in Appendix G shows the establishment employed and cost incurred by the municipalities on account of vaccination and the results of the vaccine operations. The total municipal expenditure on this item amounted to Rs. 16,847, against Rs. 18,047 of the previous year, out of which latter sum Rs. 3,064 represents the expenditure incurred by the late Suburban Municipality during 1888-89. The provisions of the Compulsory Vaccination Act, 1880, are in force in 130 municipalities, and the total number of persons vaccinated or revaccinated during the year amounted to 98,567, of whom 89,753 were successful cases.

One hundred and twenty municipalities maintained 127 dispensaries (including one temporary institution) during the year. The total cost incurred on account of "Medical institutions" was Rs. 2,30,241, against Rs. 2,29,810 of the previous year. The expenditure on this account increased in the Patna Division from Rs. 58,488 in 1888-89 to Rs. 62,433 during 1889-90, and in Chota Nagpore from Rs. 8,276 to Rs. 10,815. There were increases also in Rajshahye (Rs. 1,310) and Dacca. In Burdwan there was a falling off of Rs. 3,216, in the Presidency Division Rs. 4,603, and in Orissa Rs. 802. In the Sooree Municipality one-half of the cost of maintaining the dispensary was borne by the District Board of Beerbhoom, and hence the reduction of expenditure.

29. Female Medical education.—The Municipal Commissioners of Burdwan made a provision of Rs. 240 per annum for the education of one girl in the Campbell Medical School in Calcutta; but as no one availed herself of this offer, it was resolved to utilise the allotment in training a nurse at the Burdwan Charitable Dispensary. Their choice fell upon one Srimati Hemangini Chatterjea, who refused, however, to accept the appointment. They are now trying to secure another duly qualified and trained nurse. In the Pubna district two midwives were appointed, paid partly from the municipal and partly from the district funds. It is stated that, whilst other municipalities in the Division

were ready to incur expenditure on this account, no female students came forward for help, and consequently no help was given. In Burrisal the Municipal Commissioners employed a midwife for the female hospital. There is a female hospital attached to the Bankipore Dispensary, where a trained nurse is employed to look after female patients. Although stipends had been provided for by the municipalities in the Sarun district for female medical students attending the Temple Medical School, no candidates have yet come forward to attend the institution; but the Magistrate reports that the matter has his best attention, and that every endeavour will be made to make the scheme successful. The Lieutenant-Governor regrets that the results should be so discouraging. They corroborate what has come to the notice of Government from other sources, that less interest is evinced in Bengal than in other provinces in India in the furtherance of female medical aid to women. Sir Steuart Bayley hopes, however, that both District Boards and Municipalities will persevere in their efforts to extend female medical enterprise in India.

30. Water-works.—The increase under this head occurred mainly in Dacca (Rs. 10,372) and Bhagulpore Rs. (43,939). The Howrah Municipality reduced its expenditure from Rs. 2,471 to Rs. 413. In Dacca the increased expenditure was due to the extension of the water-works in that town, for

which a loan of Rs. 1,25,000 has been sanctioned by Government.

31. Drainage Works.—The following municipalities show an increase or decrease of expenditure on this item as compared with the previous year:—

| | | 00717887 | | |
|------------------|--------------|----------|-----------|-----------|
| Municipality. | | 100 | Increase. | Decrease. |
| | | | Rs | Rs. |
| Purdwan | | | 4,255 | |
| Serampore | 100 | 1 | 2,735 | |
| Darjeeling | The state of | hant | CAN THE | 7,429 |
| Dinagepore | | | | 7,911 |
| Rampore Beauleah | | | | 2,271 |
| Dacea | | | 3,383 | |
| Naraingunge | | | 1,060 | |
| Patna | | | | 3,144 |
| Revilgunge | | | 2,843 | |
| Lalbagh | | STEEL ST | 2.110 | |

The decrease in the Darjeeling Municipality is due to the approaching completion of the flagging of its drains, while in Dinagepore the falling off was on account of the large expenditure on drains in 1888-89 owing to the munificence

of the Maharajah.

32. Public instruction.—The statement in Appendix J shows, division by division, the class and number of schools maintained or aided by municipalities, the number of pupils receiving instruction at them, and the expenditure incurred on them; and also the number and class of other schools within municipal limits. It has been compiled in some cases from figures furnished by Commissioners of Divisions, and in others, where this could not be done, or only incomplete information was furnished, from figures obtained from the Education Department. According to the separate report furnished by the Director of Public Instruction, the total expenditure from Municipal runds on education during the year was Rs. 83,000, against an expenditure of Rs. 86,000 during 1888-89. The details are shown in the margin,

Rs. and betray the fact, which was already well known Secondary 63,000 to Government, that the Municipal grants are still Primary 13,000 Female devoted as a rule to the maintenance of English 9.000 Special education, and that very little assistance is given to 1,000 Buildings 4,000 primary schools. The Lieutenant-Governor is glad to 3,000 notice, however, that there is some improvement in this

respect, and that Commissioners of Divisions have not been slow to check the tendency of Municipal Commissioners to aid English education at the cost of the rate payers generally, while only a few of the well-to-do class profit by the schools. There are apparently serious difficulties in the way of making the figures furnished by municipalities to the Education Department correspond with those supplied by them to Government; but the matter has received attention, and it is to be hoped that in next year's reports the municipal and Departmental figures will be wholly reconciled.